



THE

MOSAIC System

Confirmed by

PHÆNOMENA.

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IN this volume, Sanchoniatho's Memoirs are examined, and proved to agree with the Mosaic History. Also the treasures of the rain-waters are discovered in the firmament; which were poured upon the earth at the season of the deluge. The origin of the Ethiopians is likewise pointed out; and the peopling of America by their means is considered, with some more particulars which seemed necessary to be taken notice of, in an Examination of the Mosaic System.

AN ESSAY ON THE HISTORY
OF THE CREATION:

Wherein is shewn, that

THE
COPERNICAN Philosophy

Is Contradicted by PHÆNOMENA:

And, that

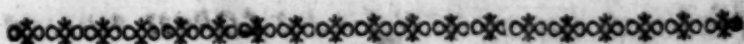
The MOSAIC System

Is Confirmed from PHÆNOMENA.

Adsit reverentia Vero.

BY JAMES HURLY, B. A.
Master of the Grammar-School, and Cu-
rate of St. James's, in Taunton.

VOL. II.



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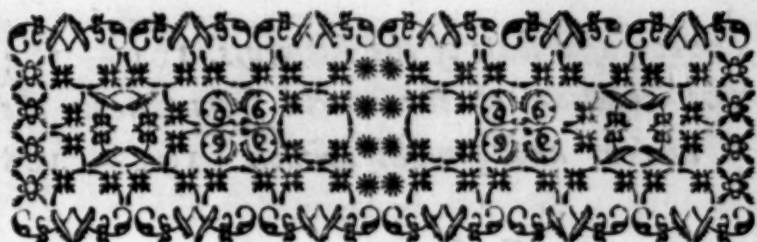
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THE HISTORY OF THE
CITY OF LONDON
FROM THE FOUNDATION
TO THE PRESENT TIME
BY JOHN STOW

OF THE
CITY OF LONDON
BY JOHN STOW



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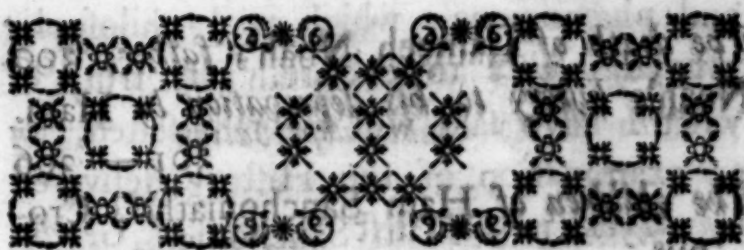
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AN ESSAY
ON THE
History of the Creation.



CHAP. XV.

*The History of the Creation of the Heaven
and of the Earth.*

FROM the examination of
the philosophical history of
nature, I come to the con-
sideration of the Revealed
System communicated by *Moses*. This
will bear the severest scrutiny; and be
found to agree in all it's parts with facts

B and

and phenomena : which trial philosophy proved unable to endure. The truth of what I have said will be manifested, by an examination of the History delivered by *Moses*, in the first chapter of *Genesis*.

THE beginning of the chapter is an introduction to the History of the Creation, contained in these words: "*In the beginning GOD created the heaven, and the earth. And the earth was without form, and void; and darkness was upon the face of the deep.*" After which Introduction the History begins: "*And the SPIRIT of GOD moved upon the face of the waters.*" The SPIRIT descended from the habitation of his glory, to survey "*the face of the waters*" called before "*the Deep;*" which is the *chaos* of the ancients. This descent was for the purpose of the Creation. At his word, the darkness removed from his presence: and the first act of his power was the creation of light. "*GOD said, Let there be light, and there was light. And GOD*
" saw

"saw the light that it was good; and
 "GOD divided the light from the dark-
 "ness. And GOD called the light Day,
 "and the darkness he called Night. And
 "the evening and the morning were the
 "first day." The darkness was not an-
 nihilated upon the creation of light; but
 was shut up within a limited space, and
 intirely separated from the newly created
 light: "GOD divided the light from the
 "darkness." On the second day, GOD created a
 firmament; which suspended the exterior
 waters of the deep, and divided them
 from the interior waters next to the
 center of the chaos. These lower waters
 remained for the present in their chaotic
 state. "GOD said, Let there be a firma-
 "ment in the midst of the waters: and let
 "it divide the waters from the waters."
 "And GOD made the firmament: and di-
 "vided the waters which were under the
 "firmament from the waters which were
 "above the firmament: and it was so. And

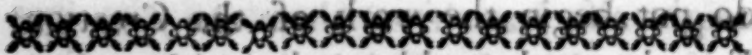
“GOD called the firmament Heaven. And
 “the evening and the morning were the se-
 “cond day.” Proper remarks, it is hoped,
 will be made on the several quotations
 from the History, after the relation of
 each day’s work.

ON the third day, the interiour wa-
 ters which were beneath the firmament
 were also separated from the deep or
 chaos, making a collective body of wa-
 ters below, as the former waters were
 collected together in the upper regions:
 which lower waters were now called Seas.
 And from thence the dry land was pro-
 duced, and called *Earth*. “And GOD
 “said, Let the waters under the heaven,
 “(or firmament,) be gathered together un-
 “to one place; and let the dry land appear:
 “and it was so. And GOD called the dry
 “land *Earth*; and the gathering together
 “of the waters called be Seas. And GOD
 “saw that it was good.”

ON the fourth day, GOD having be-
 fore clothed and adorned the earth as
 he

he saw good, set *lights* in the firmament of heaven; that the earth might have a proper portion of light, as the heavens had been already filled with it, when G O D divided between the light and the darkness. Nor was this their only use to the future inhabitants of the earth; who might also learn from them the *signs*, and seasons, when they might, with the greatest prospect of success, go about the various labours which they were to take under the sun. “ *And G O D said, Let there*
“ *be lights in the firmament of the heaven,*
“ *to divide the day from the night: and*
“ *let them be for signs, and for seasons,*
“ *and for days, and years. And let them*
“ *be for lights, in the firmament of the*
“ *heaven, to give light upon the earth: and*
“ *it was so. And G O D made two great*
“ *lights; the greater light to rule the day,*
“ *and the lesser light to rule the night:*
“ *He made the stars also. And G O D set*
“ *them in the firmament of the heaven*
“ *to give light upon the earth: and to*
“ *rule*

“rule over the day, and over the night;
 “and to divide the light from the dark-
 “ness. And God saw that it was good.
 “And the evening and the morning were
 “the fourth day.” The rest of the Histo-
 ry is postponed.



CHAPTER XVI.

*On the Deep or Chaos; which was prior to
 the Creation.*

WHEN we set out upon principles of truth, all the parts of a subject tend to confirm each other; and the light increases as we proceed, till we come to the manifestation of that which we are seeking after. A particular examination and discussion of the preceding parts of the History of the Creation will, I trust, give this token of the truth.

THE

THE introduction to the History claims the first part of our attention: "In the beginning, GOD created the heaven and the earth. And the earth was (before the Creation) without form, and void: and darkness was upon the face of the deep." It is plain, that these words do not begin the work of the Creation. For the earth could not be without form, after it had been fashioned by the wisdom and power of the CREATOR. Nor could Moses say, "GOD created the heaven and the earth; and after this creation, the earth was *tohu* and *bohu*; a chaos, and a confusion. For so the words in this place translated without form and void, are rendered in Dr. Cudworth's Intellectual system, p. 79. "All is *tohu* and *bohu*, chaos and confusion." Dr. Hammond likewise puts the same construction upon the words, in his paraphrase on the third verse of the eleventh chapter to the Hebrews: — "the earth which is described as an invisible chaos
" of

“ of confusion, Gen. i. 2. ” In the twentyfourth chapter and tenth verse of the prophet *Isaiah*, the translators of the Bible have englished the word *tobu* confusion: “ *The city of confusion (tohu) is broken down.* ” And in the eleventh verse of the thirtyfourth chapter, *tobu* is rendered confusion, and *bobu* is translated emptiness: “ *But the cormorant and the bittern shall possess it; the owl also, and the raven shall dwell in it. And he shall stretch upon it the line of confusion, and the stones of emptiness.* ” And it is hereby evidently meant, that the LORD would reduce that city to an heap of confusion, that he would reduce it “ *without form and void.* ” From hence it is very apparent, that *Moses* introduces the History of the Creation, with a description of the confusion of the elements, before they were ordered and fashioned by the DIVINE SPIRIT: when the principles of the world were mixed and scattered in the chaos, wherein

in the earth and all the parts of the universe lay *invisible, and without form; without figure, unmade.*

FOR according to the septuagint version the signification of *tobu* and *bobu* is *non aspectabilis, et infabricata*: earth was not to be seen, before the Creation, and it was unfashioned when “*the SPIRIT of GOD*” “*moved upon the face of the waters.*” Which description seems to have been in the mind of the Apostle to the *Hebrews*, when he delivers the following words in the eleventh chapter, and third verse of his epistle: “*Through faith, we*” “*understand that the worlds were framed*” “*by the word of GOD; so that things*” “*which are seen were not made of things*” “*which do appear.*” The multitude of “*things which are seen were made of things*” “*which did not appear:*” neither could they wear an appearance; being destitute of form, and figure, and light; and therefore wanting every quality to denominate them visible objects.

C

PERHAPS

PERHAPS the translators broke the composition of the Greek word which signifies not appearing, from a superabundant caution, lest advantage should be given to *Epicureans*, and other atheists; by allowing, with them, a preexistence of atoms. But truth desires not to be kept from the light; and religion fears not, where no fear is. Although *Lucretius* and others have abused the atomical philosophy; Dr. *Cudworth* thinks that this was the ancient teaching, before we hear of atheists; and that it is a weapon which may be successfully used against them. “We are of opinion that
 “neither Democritus, nor Protagoras, nor
 “Leucippus was the first inventor of this
 “philosophy: and our reason is, because they
 “were all three of them atheists; (though
 “Protagoras alone was banished for that
 “crime by the Athenians,) and we cannot
 “think that any atheists could be the in-
 “ventors of it; much less that it was the
 “genuine spawn and brood of atheism it
 “self,

"self as some conceit: because however these
 "atheists adopted it to themselves, endeavour-
 "ing to serve their turns of it; yet if right-
 "ly understood it is the most effectual en-
 "gine against atheism that can be." *Intel-*
lectual system. p. 12. In the same page,
 that very learned writer informs us fur-
 ther of the antiquity of the atomical phi-
 losophy. "But besides reason, we have also
 "good historical probability for this opinion,
 "that this philosophy was a thing of much
 "greater antiquity than either Democritus
 "or Leucippus. — Posidonius, an anci-
 "ent and learned philosopher did (as both
 "Empiricus and Strabo tell us) avouch
 "it for an old tradition, that the first in-
 "ventor of this atomical philosophy was one
 "Moschus a Phoenician, who as Stra-
 "bo also notes, lived before the Trojan
 "wars."

IF we understand by the chaos of
 the ancients, a confused mixture of the
 principles or atoms, which, when collect-
 ed and disposed by infinite wisdom and
 C 2 power,

power, appeared in the form and beauty of the Created System; then it may be proved, that the atomical philosophy was taught in *Phœnicia*, near the time of the *deluge*; instead of being instituted there about the time of the *Trojan wars*. This is manifest from *Santhoniatho's Phœnician History*, which I promised, in my first volume to examine. The history was communicated by *Thoth*, who was the grandson of *Ham* the son of *Nab*; as will be shewn, in due time and order, in this Essay: and is translated from *Eusebius* by Bishop *Cumberland*, beginning as follows: "*He (Santhoniatho) supposeth, or affirms, that the principle of the universe was a dark and windy air, or a wind made of dark air, and a turbulent evening chaos: and that those things were boundless, and for a long time had no bound or figure.*" In this tradition, agreeably to what *Moses* delivered concerning the preexistence of atoms, the earth (and the universe) was invisible and

and had no bound or figure, until it was formed by the hand of the CREATOR. Before the Creation all was darkness and deep, in the language of Moses; which the Phœnician describes, as “a wind made of dark air, and a turbulent evening chaos.” So there is a perfect agreement between Moses and Sanchoiatho, in respect of the chaotic state of the world.

NOR was it only a tradition in Phœnicia, that the world was made from a dark chaos; but the same was the general opinion, as Dr. Cudworth asserts, p. 248: “It was a most ancient, and in a manner universally received tradition among the pagans, as hath been often intimated, that the cosmogonia, or generation of the world, took it’s first beginning from a chaos: the divine cosmogonists agreeing here-in with the atheistic ones: this tradition having been delivered down from Orpheus and Linus, amongst the Greeks, by Hesiod and Homer, and others; acknowledged by Epicharmus, and embraced by
 — Thales,

“ Thales, Anaxagoras, Plato, and other
 “ philosophers, who were theists. — Neither
 “ can it reasonably be doubted, but that it
 “ was originally Mosaical, and indeed at
 “ first a Divine revelation: since no man
 “ could otherwise pretend to know what was
 “ done before mankind had any being. Where-
 “ fore those pagan cosmogonists, who were
 “ theists, being polytheists, and theogonists al-
 “ so, and asserting, besides the one supreme
 “ unmade DEITY, other inferior mun-
 “ dane gods, generated together with the
 “ world, the chief whereof were the ani-
 “ mated stars; they must needs, according
 “ to the tenour of that tradition, suppose
 “ them, as to their corporeal parts at least,
 “ to have been juniors to night and chaos,
 “ and the offspring of them: because they
 “ were all made out of an antecedent
 “ dark chaos.”



CHAP. XVII.

On the creation of Light by the SPIRIT.

THE first thing that was done towards the Creation, is expressed in these words: "*And the SPIRIT of GOD moved upon the face of the waters.*" What is here termed waters, is plainly the deep in the former part of the verse. And the vast quantity of water always existing every where, warrant the element of water to be put for the whole chaos: especially considering it's great and extensive uses in compositions, and solutions also; whence naturally arise prodigious effects of this principle in the Creation. And many besides Moses have spoken of the element of water as the principle of all things. "*After Moses had said that the SPIRIT of GOD brooded upon the waters, in the*"
" first

“first creation of all things; the ancient
 “Phoenicians made water the principle of
 “all things. The same doctrine was after-
 “wards adopted by the Egyptians; and
 “from them Thales brought it into Greece;
 “from whence it spread among the che-
 “mists.” Boerhaave’s Chemistry. vol. I.
 p. 447.

WHILST the world was nothing but
 a dark chaos, “the SPIRIT of GOD
 “moved upon,” or surveyed “the face
 “of the waters,” or the abyfs; design-
 ing to form it into a world. Upon the
 word rendered in our translation “moved”
 Buxtorf makes this remark, “Hebraei no-
 “tant verbum proprium esse avium alas mo-
 “titantium, dum vel pullos ad volatum pro-
 “vocant, ut ciconia et aquila, vel se in
 “aere suspendunt praedae insidiantes.” I pre-
 fer the suspension of the bird in the air;
 because the HOLY SPIRIT is de-
 scribed as descending like a Dove, at
 our Saviour’s baptism: “JESUS, when
 “he was baptized, went up straightway out
 “of

“ of the water ; and lo, the heavens
 “ were opened unto him ; and he saw the
 “ SPIRIT of GOD descending like a
 “ dove, and lighting upon him. ” Mar. iii.

16. And will not this explain the emblem of the *Wings*, under which figure *Simmius Rhodius* describes the person of Love? The poet exhibits him, in lines fashioned into the form of wings, as the King, and Creator, and Ruler, of the universe; yet issuing himself from Necessity; which I apprehend to mean the cabalistic Fate, or, as revelation teaches us to call him, our Father in heaven. Had our critics considered the significance of the hieroglyphic, they would hardly have censured the author of this little piece, for moulding his lines in their present form.

Sanboniatho's tradition, before *Simmius*, refers the Creation of the world to Love, or Cupid: “ He supposeth, or affirms, that
 “ the principle of the universe was a dark
 “ and windy air, or a wind made of dark

"air, and a turbulent evening chaos; and
 that these things were boundless; and for
 a long time had no bound or figure." This
 part was quoted before. Next follows
 "But when this wind fell in love
 with his own principles, and a mixture
 was made, that mixture was called De-
 fire, or Cupid." When the dark air co-
 aleced by condensation with the chaotic
 principles for the beginning of the Cre-
 ation, this was an act of the Divine Love,
 which, putting the cause for the effect,
 is called, in the translation of the *Pha-
 rician* tradition, Desire, or Cupid.
 Dr. Cudworth brings further testimony,
 that the world made from a chaos by
 Love means the Creation by the SPI-
 RIT of God, and is to be received as
 religious. "For that this ancient cabala,
 which derived the cosmogonia from chaos
 and Love, was at first religious, and not
 atheistical, and Love understood in it not
 to be the offspring of chaos, may be con-
 cluded from hence; because this Love, as
 " well

well as chaos, was of a Mosaical extrac-
tion also, and plainly derived from that
SPIRIT of GOD, which is said in
scripture to have moved upon the waters,
that is upon the chaos: whether by this
spirit be to be meant GOD himself, as
acting immediately upon the matter, or
some other active Principle derived from
GOD, and not from matter, as a mun-
dane soul or plastic nature. And that
this cabala was thus understood by some
of the ancient pagan cosmogonists them-
selves, appears plainly, not only from Sim-
mias Rhodius, and Parmenides, but al-
so from the verses of Orpheus, or who-
ever was the writer of those Argonau-
tics, undoubtedly ancient, where chaos and
Love are thus brought together, — To
this sense; We will first sing a plea-
sant and delightful song concerning the
ancient chaos, how heaven, earth, and
seas were framed out of it; as also
concerning that much wise and saga-
cious Love, the oldest of all, and self-

perfect; which actively produced all
 these things, separating one thing from
 another. — From evidence it is manifest
 that according to the Orphic tra-
 dition, this Love, which the cosmogonia
 was derived from, was no other than the
 eternal Unmade Deity, or an active
 Principle depending on it, which produced
 this whole orderly world, and all the gen-
 erated gods in it, as to their material part
 "out of chaos and night" p. 249, 250.
 In the History of the Creation, neither
 the Father nor the Son are to be
 esteemed by us as unconcerned in the
 work. That the Son is not to be
 excluded from the Creation is mani-
 fest, from the first and second verses of
 the first chapter to the Hebrews: "In the
 beginning, and in divers man-
 ners, spoke in time past unto the fathers
 by the prophets, and in these last days
 spoken unto us by his Son, whom he
 hath

Of the Creation

his bath appointed v^r their desired things, of
whom also be made the world. And
the L^{ORD} D^{IV}INES us, in St. John's Gos-
pel, declares unto Philip, that the Father
that dwelleth in me he doth his works.
chap. xiv. ver. 10. Finally we are not
to exclude the angels from all concern
in the work of Gods Creation. For
thus saith the L^{ORD} to Job, ch. xxxviii.
v. 6, 7. "Who laid the corner stone there-
of? When the morning stars sang toge-
ther; and all the sons of GOD shouted
for joy." Which is a manifest proof,
that these morning stars attended the
CREATOR, when he began his work,
which comes next to be considered.
THE creation of the first Day. Was
light in the exterior part of the chaos,
whose inward parts had no communica-
tion with this light, but were still dark
waters: still, after the creation of the
light, as before. "God said, Let there
be light, and there was light. And God
saw the light that it was good, and
died."

"GOD

is perfect; which actively produced all,
 but these things separating one thing from
 another. — 2 — From evidence it is manifest
 that, according to the Orphic tra-
 dition, which I have, which the cosmogonia
 was derived from, was no other than the
 eternal Unmade Deity or ever active
 Principle depending on it, which produced
 this whole orderly world, and all the gene-
 rated gods in it, as to their material part,
 "out of chaos and night." p. 249, 250.
 And though in the H. O. and P. it
 is the nominal CREATOR of the world
 in the History of the Creation; neither
 the FATHER nor the SON are to be
 esteemed by us as unconcerned in the
 work. That the SON is not to be
 excluded from the Creation is mani-
 fest, from the first and second verses of
 the first chapter to the Hebrews: "GOD,
 who dwelt in light by times, and in diverse man-
 ners, spake in time past unto the fathers
 by the prophets, hath in these last days
 spoken unto us by his SON, whom he
 doth" "hath

his bath appointed. His will: things by
 whom also be made the world. And
 the LORD DIRECTS US. In St. John's Gos-
 pel, declares unto Philip, with the APOSTLE'S
 words, "that dwelleth in me be doth the works."
 chap. xiv. ver. 10. Finally we are not
 to exclude the angels from all concern
 in the work of God's Creation. For
 thus saith the LORD to Job, chap. xxxviii.
 v. 6, 7. "Who laid the corner stone there-
 of? When the morning stars sang together
 and all the sons of GOD shouted
 for joy." Which is a manifest proof
 that these morning stars attended the
 CREATOR, when he began his work,
 which comes next to be considered.
 THE creation of the first Day, was
 light in the exterior part of the chaos,
 whose inward parts had no communica-
 tion with this light, but were still dark
 waters still, after the creation of the
 light, as before. God said, "Let there
 be light," and there was light. And God
 saw the light that it was good, and
 it was day.

"GOD

God divided the light from the dark-
 ness. And God called the light Day,
 and the darkness he called Night: and
 the evening, and the morning were the
 first day. What was before called
 Deep, and Waters, has now the name of
 Night: whence we understand why the
 ancients imputed the origin of the world
 in so great a degree to night: since the
 uncreated world was a dark chaos, and
 was called Night by the CREATOR
 himself. The reason is evident why light was
 first made; notwithstanding it was sepa-
 rated from the world which was to be
 created. The CREATOR of the world
 was to govern, and rule over his creatures;
 for it cannot be conceived, that a Be-
 ing infinitely good would leave his crea-
 tures to the effects of blind chance, af-
 ter his infinite wisdom had thought pro-
 per to give them an existence. An ha-
 bitation for the DIVINE glory was
 therefore requisite; who afterwards would
 have

have some particular place for the manifestation of his presence, in that part of the Creation which he particularly took under his protection, namely the flock of *Abraham* appearing in the Mercy-Seat, whilst the ark and the tabernacle had their duration; and afterwards in the most holy place, when "Solomon built him an house." So God created the light for the place of his throne, to sit and judge the world which he was preparing; at whose right hand is *Jesus* the Son of God: "Who is the blessed and only Potentate, the King of kings, and Lord of lords; who only hath immortality, dwelling in the light, which no man can approach unto; whom no man hath seen, nor can see; to whom be honour and power everlasting. Amen." *1 Tim. vi. 15.*

ter his infinite wisdom had thought proper to give them an existence. And as for the Divine glory was therefore requisite; who afterwards would have

~~OF THE HISTORY OF THE CREATION~~
 CHA P. XVIII.

On the creation of the Firmament.

ON the second day, G O D began the creation of what comes within our sphere; and the work is described in these words: "*And G O D said, Let there be a firmament in the midst of the waters; and let it divide the waters from the waters. And G O D made the firmament; and divided the waters which were under the firmament, from the waters which were above the firmament; and it was so. And G O D called the firmament Heaven. And the evening and the morning were the second day.*" The examination of this state of the firmament will convey ideas very different from those which philosophers have delivered concerning it; and therefore it will be necessary to proceed slowly and surely with the

the enquiry; taking the great care to have truth continually in view, and not to be diverted from the sight of it, by novelty, or prejudice.

In the first place, the situation of the firmament is certain; namely "*in the midst of the waters.*" And secondly the reason of this situation is plainly assigned: that a division of the waters might be made by the firmament. Let the last point be examined first; for by this method we shall infallibly attain the knowledge of what we are seeking after.

THAT upper or exterior waters of the chaos, could not naturally be kept from mixing with the lower concentrical waters, without being fixed. And as miracles must not be brought to aid an argument, where nature is clear; we are warranted to conclude, that the superiour waters were fixed for their separation from "*the waters which were under the firmament.*"

Thus far there is no room for the insinuation of an error to injure the enquiry.

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THE next step is made with equal safety, that nothing fixes waters in a natural way, besides cold. From whence the conclusion is safe; that "the firmament in the midst of the waters," was an expansion of an actual cold in the midst of the chaos; like the cold felt in those parts of the earth which are hardly visited by the rays of the sun, but in an almost infinitely greater degree. And what effects an extreme cold would produce when the firmament was first made, may be tolerably well understood from the effects which it now produceth. At this time, it is the cause of ice, and snow, and therefore it's effects, were the same amongst the waters at the first. Dr. Boerhaave's authority may be given here, which is more than necessary, to shew the present effects of the cold in the atmosphere upon the waters of the atmosphere. "We learn by experience, that the higher water rises into the air, the further it's parts recede from each other, and the colder it grows:

" grows: for we find by experiments, that
" in all the habitable parts of the globe,
" the heat is the greatest, *ceteris paribus*,
" on the surface of the earth; and a freez-
" ing cold is constantly found on the tops
" of the highest mountains which are co-
" vered with snow. This holds true even
" under the equator, and in the torrid zones.
" The degree of cold also increases, in pro-
" portion, as we rise from the foot of a
" mountain to the top; the increase being
" in proportion to that of the altitude.
" Hence, the water, rising into the air, and
" coming to the freezing height, must ne-
" cessarily be turned to ice; unless all it's
" particles should separate, so as not to touch
" each other. But if at this height, the par-
" ticles of water, so dispersed, should by any
" means whatever come into contact; they
" must immediately begin to freeze into small
" icy flakes, floating about in the air: and
" if they should here happen to dash against
" the surface of any bodies in their way;
" they would constitute a fine hoar-frost,
" E 2

"that would otherwise scarce be perceived
 "able. Hence therefore, there is a space
 "in the atmosphere, concentrical with
 "the earth, where the water of the air,
 "when it arrives and unites, is constant-
 "ly turned to ice. 'Tis however proba-
 "ble, that this water, being at first little
 "united, can seldom freeze, but remains float-
 "ing about in its separate particles, till
 "some cause happening to unite them, it
 "is then turned into ice. p. 404.
 "what, as the Doctor says,
 "we learn by experience, to the parti-
 "cular case of a middle region of cold,
 "created at the beginning, in the waters
 "then existing, or the unformed chaos.
 "The induction of such an extreme cold
 "thickened and condensed the dark windy
 "air, and caused both the air and
 "condensed waters to shrink towards the
 "center of the chaos. Upon which, the
 "upper and finer parts must naturally de-
 "scend lower, according to the propor-
 "tion of their density. For there must have
 "been

been different degrees of density in the upper parts even of the first air, as in those nearer the center. Upon this descent of the outer waters "*they must immediately begin to freeze into small icy flakes floating about in the air.*" As they descended from the utmost and largest circumference of the chaotic mass, they were gradually and continually brought closer together in their approach towards the center, whereby they must "*come in to contact,*" and there, "*they must immediately begin to freeze.*" Hence, the firmament condensed the chaos, and caused it to be encompassed by an icy expansion, which effectually wrought a division of the chaotic waters whilst the purest waters towards the extremity were fixed by the cold of the firmament, and the inferior waters were by the same means compressed towards the center.

But how long could these waters remain fixed? Since the sun was created on the day succeeding the creation of the
 need cold;

cold; would not it's new heat dissolve
 the ice of the firmament, in as little time
 as it had been formed? It must indeed
 be acknowledged, that the weight of Boer-
 haave's opinion is on that side of the
 question: "It has been found, that water,
 rendered colder by forty degrees than it is
 ever naturally found, will presently thaw;
 nor could this cold ever contract and con-
 dense water so as to give it the weight
 and density of crystal, much less the solidity
 of the diamond." P. 457. Yet that ex-
 cellent author owns, that the contrary has
 been asserted for matter of fact, by men
 of eminence in this way: "Some eminent
 chemists have asserted, that water purified
 and hardened by long frost, is condensed
 into rock crystal; and pretend, that this
 is found true, in the frozen mountains
 of Switzerland towards the north, where
 it never thawing, is said to be thus trans-
 mitted." *ib.* Again, P. 465, he speaks
 to the same purpose: "Some have pre-
 tended, a long continued extreme cold could
 turn

turn water into crystal and gems, incapable of fusing at a glass-house furnace." Now what has the Chemist advanced to overthrow these facts or pretences? Why this only, that experiments were wanting to prove the weight and density of crystal or the solidity of a diamond acquired to ice by cold. And this is speaking like a prudent and cautious philosopher, not forward to receive as a truth what he had not a demonstration of from Fahrenheit's artificial cold; the production of which is mentioned by our author, p. 229 and 230. By pouring "spirit of nitre upon ice ground very small," that ingenious and diligent inquirer after truth produced a greater cold by forty degrees than was ever experienced in a natural way: and the ice of this very severe cold "will presently thaw." Yet it cannot be concluded from this experiment, that ice of a much severer cold will presently thaw, because it so happens in this degree of cold. Nor would the wisdom

dom of the Chemist permit him to draw such conclusions. On the contrary, these are his deductions from the experiment:

“No-body could have imagined any thing like this. — And who shall determine, what further degree of cold may be excited by other latent powers, either of nature or art? Who can say what changes would befall solid and fluid bodies, if detained in such degree of cold.” Wherefore this

judicious philosopher doth not deny the possibility of the most unexpected change of water, by means of extreme cold. Nor do I fear to produce his further conclusions concerning the nature of water

pp. 465: “Upon considering all that is here discovered of water, we may say that it is a certain species of glass, which melts with thirty three degrees of heat, and grows hard in a little greater degree of cold, whereby it becomes a solid, elastic, brittle, pellucid, insipid, scentless mass, capable of being ground into microscopes, and burning-glasses. This glass indeed is volatile, but

“ in

With other respects resembles common glass.
 And here it is surprising, that the fluid
 and soft body of water should so quickly
 be turned into a hard solid; and that
 an unelastic fluid should thus become highly
 elastic; inasmuch, that, if formed of a
 globular figure, it will rebound like glass,
 or an elastic metal. This elasticity and
 hardness of ice increases in proportion
 to the degree of cold whereto it is
 exposed; so that in the utmost degree
 thereof, it grows as hard as real glass,
 and highly elastic; but when melted, it
 presently becomes volatile. The love of
 truth drew this question from his inge-
 nuous breast: "Who can say what changes
 would befall solid and fluid bodies, if de-
 tained in such degree of cold?" And
 the same principle would have caused him
 to retract what he asserts as the proper-
 ties of mercury, &c. if he had lived
 in the next age: "It is no way ductile
 under the hammer, but divisible with small
 force, into very minute parts; and the more

so as it is the purer: nor is it capable, by
 any known degree of cold, of coalescing
 into a solid mass. For notwithstanding
 this could not be done by any known
 degree of cold in his time, it has been
 since proved by experiment, that, by a
 greater degree of cold, mercury is ductile
 under the hammer, and capable of co-
 alescing into a solid mass. Which was
 manifested by the Russian experiment, in
 which snow was used instead of powder-
 ed ice, and aqua fortis rather than spirit of
 nitre. The relation which I have seen of
 this affair begins in the 76th page of the
Annual Register for the year 1762: where
 the experiment is said to have been made
 by J. Braun of the academy of sciences,
 &c. and Read at a meeting of the
 Royal Society, in the month of May,
 1761, and extracted from vol. 52d, part
 1st of the *Philosophical Transactions* for
 the same year. That part of the pro-
 cess which I think necessary to quote is
 as follows: "By good fortune his ice was all
 gone,

" gone, and he was compelled to use snow
 " in it's stead, after having first tried, and
 " found the snow of the same degree of cold
 " with the air, at this time 203. The snow,
 " the thermometer, and the aqua fortis, be-
 " ing of the same temperature, he immersed
 " the thermometer in snow, contained in a
 " glass, and at first, only poured a few drops
 " upon that part of the snow in which the
 " thermometer was immersed: upon which
 " he observed the mercury to subside to 260.
 " Elated by this remarkable success, he im-
 " mediately conceived hopes, that these ex-
 " periments might be carried further. Nor
 " was he deceived in his expectations: for,
 " repeating the experiment in the same sim-
 " ple manner, he poured on only some more
 " aqua fortis, and immediately the mercury
 " fell to 380. Upon which, he immersed the
 " thermometer in another glass filled with
 " snow, before it had lost any of this ac-
 " quired cold; and at length, by this third
 " experiment, the mercury subsided to 470 de-
 " grees. When he observed this enormous de-

and the liquid did not break could scarcely give credit
 to his eyes, and he believed his thermometer
 broke. But to his infinite satisfaction, up-
 on striking out his thermometer, he found
 it quite whole, although the mercury was im-
 mense moveable, and continued for in the open air
 several minutes. He carried his thermome-
 ter into a chamber, where the tempera-
 ture of the air was 125 degrees, and,
 after some minutes, the mercury being re-
 stored to its fluidity began to rise. In
 the same page, we are also informed that
 below the xiphoid of Fahrenheit's ther-
 mometer "it corresponds with that of that
 employed by Professor Brauer, but there-
 fore when the mercury subsided to 1470
 degrees of the Professor's thermome-
 ter, that was about 50 degrees lower than
 the degree of cold answering to Fabre-
 nius's discovery. In this experiment, "He
 found the mercury solid, but not wholly so,
 as the middle part of the sphere was not fir-
 mly fixed. The external convex surface of the mer-
 cury was perfectly frozen, but the inter-
 nal

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the natural concave one, and the small portion
of mercury which remained fluid was pour-
ed out, appeared rough and uneven, although
composed of small globules. He gave the
mercury several strokes with the pestle of
a mortar, which stood near him. It had
solidity enough to bear extension with these
strokes, its hardness was like that of lead,
although somewhat softer; and, upon striking,
it sounded like lead. When the mercury
was extended by these strokes, he cut it
easily with a penknife. We are after-
wards told that the like experiments have
been made by divers others, with the
like success.

From hence it is certain, that addi-
tional degrees of cold, to what were
known in Boerhaave's days, produced ef-
fects unknown to that philosopher; and,
by consequence, further additions may
make the changes which could not be
made by the cold known to him; and
for the transmutation of ice into crystal
and genus incapable of fusing at a glass-
house

"*impassible firmness*" becomes credible, & of rather demonstrable by the Chemist's own title. He says, "This elasticity and hardness of ice increases in proportion to the degree of cold where it is exposed."

What then if the cold, to which the ice is exposed, should be infinite in power? Why then, "the hardness of the ice" would be infinitely increased. This cold would presently contract and condense water so as to give it the weight and density of crystal, and the solidity of the diamond.

And as we can conceive no limitations of the effect of the cold firmament upon bodies brought into the midst of its power; it is certainly to be esteemed infinite in power. Therefore pure water, exposed in the pure cold of the firmament, may certainly acquire an elasticity and hardness far beyond that of the diamond. Upon the whole, the firmament may be pronounced indissoluble, by the greatest force of the sun's violence, till it pleased the

ALMIGHTY
CREATOR

CREATOR to dissolve it, for the purpose of drowning the world.

Sanchoiathba, if I understand him, mentions the firmament as the first of existences in the chaos, as *Moses* has done; and agrees further with *Moses*, in representing it as a shining substance, which he calls *Môt*: "This mixture completed was the beginning of the making of all things; but that wind did not know it's own production; and of this with that wind was begotten *Môt*, which some call Mud, others the putrefaction of a watery mixture, and of this came all the seed of this building, and the generation of the universe. — Thus shone out *môt*, the sun, and the moon, the less and the greater stars." This part will be quoted again, intire, and examined hereafter: for the present, I have cited enough to shew that *Sanchoiathba's* *môt* shining out, with the sun, and the moon, and the stars, corresponds with the original brilliancy and situation of the *Mosaic* firmament!

I will conclude this chapter with observing, that in this repository the rain-waters of the deluge were detained, until that period, when they were poured down by the CREATOR, for the destruction of his enemies. And to this agree the words of the ALMIGHTY in the 38th chapter of *Job*: “*Hast thou entred into*
 “*the treasures of the snow? or hast thou*
 “*seen the treasures of the hail, which I*
 “*have reserved against the time of trouble,*
 “*against the day of battle and war? v.*
 22. 23.



CHAP. XIX.

On the creation of the Seas and the Earth.

THE waters which were left under the firmament of heaven, greatly reduced, were on the third day “gathered together,” and the earth appeared

ed, "And God said, Let the waters under the heaven be gathered together unto one place: and let the dry land appear. And it was so. And God called the dry land Earth, and the gathering together of the waters called he Seas. And God saw that it was good." The waters, beneath the firmament of heaven, were drawn together, into one vast collection, above which the earth appeared, or emerged, by the command of the CREATOR. Which evidently speaks the same thing, as that which is thus expressed in the 24th Psalm: "The earth is the LORD's, and the fulness thereof; the world, and they that dwell therein. For he hath founded it upon the Seas, and established it upon the floods." The correspondence is so striking, that no addition is necessary, to prove an agreement between the prophets Moses and David. Otherwise the 6th verse of the 136th Psalm might be mentioned, and applied as a confirmation of the same doctrine: "To

“him that stretched out the earth above
“the waters.”

THE blessing on the head of Joseph, in the 49th chapter of Genesis, is agreeable to what was seen before in the prophets: — “the ALMIGHTY who
“shall bless thee, with the blessings of heaven above, blessings of the deep, that lieth beneath.” As “the blessings of
“heaven above,” are referable to the spaces above the earth, so “the deep that
“lieth beneath,” must be understood of the depth of waters beneath the earth. And “the blessing wherewith Moses the
“man of God blessed” the tribe of Joseph is the same as Jacob’s blessing upon his son: “And of Joseph he said, Blessed of the LORD be his land, for the
“precious things of heaven, for the dew,
“and for the deep, that coucheth beneath.” This language describes emphatically the collection of waters called Seas, above which the earth was made to emerge.

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THE same is set out openly, clearly, and fully, as the true sense of such passages, in the twentieth chapter of the book of *Exodus*: "*Thou shalt not make unto thee any graven image, or any likeness, of any thing, that is in heaven above, or that is in the earth beneath, or that is in the water under the earth.*"

THE New Testament corroborates this doctrine of the Old. For the words of *St. Peter* correspond exactly to what *Moses* teaches, that the earth was raised above the waters, with it's inferiour parts resting in "*the deep, that coucheth beneath.*" His doctrine is: "*By the word of GOD the heavens were of old, and the earth standing out of the water, and in the water.*" *2 Peter iii. 5.* Where the language is so clear, it needs no comment.

TRADITION agrees with the doctrine of the Bible, placing the earth upon the seas, not confining the seas within the earth. What *Ovid* saith upon this

point shews the opinion of the ancients, about the situation of the seas, and of the earth, who speaks of the sea, *Amphitrite*, as extending her arms about the circumference of the earth: "*Nec brachia longo Margine terrarum porrexerat Amphitrite.*" Which proves that the situation of the earth was believed to have been on the bosom of the seas.

in proportion over the highest parts of the earth; which some other cause in-

terence, namely an actual cold to moderate the violent heat: without which intervention men could not live in places on the earth subjected to the sun's rays;

EXPERIENCE in the first place proves a Cold, where *Moses* has described it: the upper regions being found to increase in their degrees of coldness, as they are nearer to the firmament, or expanse; where this powerful cold was originally constituted. Philosophers have ascribed

ascribed this phenomenon to the want of reflected rays from the sun, which is a palpable error. The planets are greatly enlarged by their conjunctions with the sun, as I have shewn in my first volume. There it was also proved, that the increase of their magnitude is owing to their coming nearer the intense heat of the sun. p. 98 — 100. Now since the sun has power to dilate the planets which ascend high above the earth, it has power in proportion over the highest parts of the earth; unless some other cause intervene, namely an actual cold, to moderate the violent heat: without which intervention men could not live in places on the earth subjected to the sun's rays; where, notwithstanding the interposed expansion of a cold region, the heat is almost insupportable, as we learn from those who have resided for a time within the tropics. Whilst the icy firmament continued, the cold was constant, and extreme; no clouds or other causes then existing

existing to make a variation. So the heat being tempered by the cold, yielded that genial warmth of the perpetual spring, which is said to have obtained in early times, in the golden age of the powers, before the commencement of the deluge. I look upon the broken arch in the heavens called the *Milky Way*, as the remains of the firmament. It has certainly the appearance of such ruins; but is nothing like an assemblage of stars; which is the arbitrary explanation given by astronomers of this phenomenon. The Reader is left to form his judgment as his own observation shall direct him.

The saltiness of the sea-waters, is a phenomenon clearly proving the existence of the icy firmament. By the original cold, the salts were excluded from the waters of the firmament above; and attracted by the waters of the deep. As is evident from the present powers of cold to exclude salt from congealed waters; and from

the

the natural attraction between salt and waters in a fluid state. The obagelice
 " of sea-water is often used at Amsterdam
 " for brewing. And Bartholine, in his book
 " de nivis usu, confirms this relation in the
 " following words: 'Tis certain, says he,
 " that if the ice of the sea-water be thaw-
 " ed, it looses it's saltness; as has been
 " lately tried by a professor in our uni-
 " versity." Boerb. p. 446. m. The power
 of water, considered in a state of fluidi-
 ty, to unite sea-salt with itself, is better
 known than to make a proof necessary;
 yet a word or two may be quoted from
 the Chemist, which will be unexceptiona-
 ble authority: "The next property to be
 " considered of water, is it's power as a sol-
 " vent, whereby it dissolves certain bodies,
 " and sustains them in a fluid form uniformly
 " bly intermixed among it's own particles.
 " The bodies thus dissolved by water are
 " the following: viz. first, simple fossil salts,
 " both fluid and solid, as salgem, sea-salt;
 " &c." p. 448. The argument will be
 more than sufficient to show that
 the

further pursued, when we examine the phenomena of the seas and dry land, in the next chapter.



CH A P. XXI.

The Mosaic representation of Seas and Earth confirmed by Phenomena.

AFTER the creation of the firmament, which excluded the salts from the upper regions to the lower parts of the chaotic mass; the waters were “gathered together unto one place:” Consequently they carried the remaining corpuscles of the chaos into one colluvies. By the emersion of the earth above the waters, an abundance of heterogeneous particles were extricated from the waters, and lodged in the earth. But the salts remained; *“because the water cannot be separated from them, they being so volatile*

“ as

"as to fly off with the degree of heat requisite to the separation." *ib.* But there was no heat yet imparted to the world, and the severe cold of the firmament perfected the mixture of the salts, in the waters of the seas.

As the phenomena of the firmament and of the seas confirm the History of the Creation; so the phenomena of the earth concur in the same cause. The dry land raised from the colluvies, although it left the salts in the waters, naturally brought up with it many tokens of it's ascent from the seas. Which consideration, I hope, will satisfy the naturalists, who judge, that the earth must have lain once dissolved to atoms in water, from it's external and internal phenomena: without having recourse to the vain hypothesis of a total dissolution of all the world by the deluge. For if the flood dissolved and reduced the earth to it's primeval atoms; how did the "olive-leaf" escape the general dissolution?

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Noah,

Noah, the second time, "sent forth the dove out of the ark. And the dove came in to him in the evening; and lo, in her mouth was an olive-leaf pluckt off. So Noah knew that the waters were abated from off the earth." Gen. viii. 10, 11. Leaves would have surely dissolved, before rocks and mountains. Moreover the ark it self could not have endured the wreck of the universe.

THE History is further confirmed, by the extraordinary phenomena from the deluge. But, to prepare the way to certainty in the present enquiry, it will be necessary to trace out the incumbency of the seas, which pressed, as we shall find, upon the garden of Eden; whose situation is consequentially to be searched after.

The island of Ceylon in the Indian sea is, according to tradition, the Eden which Moses treats of; as may be learned from those who have written of that island. And this part of the earth answers to the description

description of the place in the second chapter of the book of Genesis: "The
 " LORD GOD planted a garden eastward
 " in Eden: And there he put the man
 " whom he had formed. — And a river
 " went out of Eden, to water the garden;
 " and from thence it was parted, and be-
 " came into four heads. The name of the
 " first is Pison; that is it which compasseth
 " the whole land of Havilah, where there
 " is gold. — And the name of the second
 " river is Gihon; the same is it that com-
 " passeth the whole land of Ethiopia. And
 " the name of the third river is Hidde-
 " kel; that is it which goeth toward the
 " east of Assyria. And the fourth river is
 " Euphrates." It is of the utmost im-
 portance in our present enquiry to get
 the true meaning of these few words:
 " A river went out of Eden to water the
 " garden." The waters, here called a river,
 are denominated in the original *Nahar*;
 which word properly signifies a "gather-
 ing together of waters," — being derived
 from

from the verb "*nabar, confluit; sed me-*
" taphorice de hominum concursu semper u-
" surpatur." Buxtorf. Therefore this term
 has the same meaning as the word *Mik-*
veh, rendered "*gathering together,*" in
 the first chapter. For, according to the
 afore-cited authority, *Mikveh* is "*conflu-*
" entia, conceptaculum, congregatio;" from
" Nikvah, confluere; de aquis: congregare se,
" de hominibus." A better authority may
 be produced yet, proving, beyond all
 contradiction, that the word rendered ri-
 ver, in the passage under examination,
 signifies the whole collection of waters,
 the seas, or the deep. For in this sense
 it is used in the Bible, and translated
floods; where the seas beneath the earth
 are undeniably spoken of. The portion of
 Scripture referred to is in the 24th
Psalms: "*The earth is the LORD's, and*
" the fulness thereof; the world, and they
" that dwell therein. For he hath founded
" it upon the seas, and established it upon
" (Neharoth) the floods."

WHEREFORE,

FOR

WHEREFORE, the seas went out of, or from, *Eden*; so as to water the garden. The verb, here rendered "to water," elsewhere signifies to cause to drink: as in *Numbers*, v. 24. "And he shall cause the woman to drink the bitter water, that causeth the curse." So the garden of *Eden* drank the waters of the seas, which pressed against the foot of the hill on which it lay. For, surely, the garden was not upon a level with the seas, and overflowed by them; but, being a part of their boundaries, was naturally raised higher than that the waters should cover it.

THE rivers, which had their sources from the foaming of the waters through the adjacent hills, confirm the truth of what is here laid down respecting the garden of *Eden*: "from thence it (the sea) was parted, and became into four heads," the sources of the four capital rivers, *Pison*, *Gihon*, *Hiddekel*; and *Euphrates*.

WHEREFORE

FOR

From its scriptural doctrine, that the sea furnishes the springs, which become rivers, and return to the ocean. All the rivers run into the sea, yet the sea is not full: unto the place from whence the rivers come thither they return again. Eccl. i. 7. It is granted that many notable philosophers deduce the sources of rivers from exhalations. Even Dr. Buerbaue's opinion is, that springs have their origin from hence: "All spring water arises from rain, raised by heat from the surface of the terrestrial globe into the air, which thus abounding with water, and impinging by night against the cold sides of high and extended mountains; the watery vapours are here condensed into drops, after the manner of distillation: whence proceed rivulets, springs, &c." p. 462. But phenomena declare for the doctrine of the Bible. Of this you may be satisfied, by tracing the sources of rivers, as they are exhibited in maps, or by an actual survey

very of the situation of springs; from the heads of rivers to their return into the seas. *And* *in* that great length of time, from the Creation to the flood, the rivers naturally wore their way deep in the earth; for *the waters wear the stones.* When they were sunk below the surface of the deep, they had the natural effects of valleys, to draw the waters of the ocean. Which were poured into these channels at the appointed time, when all the fountains of the great deep were broken up. *Gen. vii. 11.* Then the sea brake forth, as if it had issued out of the womb. *Job xxxviii. 8.* The river Gibon, encompassing the whole land of Ethiopia, by its situation, the nearest prey to the breaches of the sea, of course was the first subject of the inundation. The other rivers seem to be, the Red Sea, the Persian Gulf, and the Ganges. Upon the retreat

retreat of the deluge, by the new passages made upon and in the earth, the first river was again separated from the original deep, and became the *Atlantic Ocean*; by the emerfion of the new continent of *America*. Which I take to be proved, by the silence of all ancient history in respect to what has been called the New-World.

As I formerly promised an explanation of *Saneboniatbo's* memoirs, his representation of the deluge now claims our notice. And since we are come again to take a further view of this most ancient tradition; for the better understanding of his obscure writings as we proceed, I apprehend it not amiss to quote his first chapter intire; notwithstanding the extracts already fetched from thence. Let us therefore return to the first page of Bishop Cumberland's treatise.

“ *THE COSMOGONY.* ”

“ He supposeth, or affirms, that the principle of the universe was a dark and
“ windy

"windy air, or a wind made of dark air;
 "and a turbulent evening chaos: And that
 "these things were boundless; and, for a
 "long time, had no bound or figure. But
 "when the wind fell in love with his own
 "principles, and a mixture was made, that
 "mixture was called Desire, or Cupid.
 "This mixture completed was the beginning
 "of the making of all things: (but that
 "wind did not know it's own production.)
 "And of this, with that wind, was begot-
 "ten môt; which some call mud; others
 "the putrefaction of a watery mixture:
 "And of this came all the seed of this
 "building, and the generation of the uni-
 "verse. (But there were certain animals,
 "which had no sense; out of which were
 "begotten intelligent animals, and were cal-
 "led Zophefemin, that is, the spies or o-
 "verseers of heaven, and were formed alike
 "in the shape of an egg.) Thus shone out
 "môt, the sun, and the moon, the less and
 "the greater stars. Such, addeth Eusebius,
 "is the Phœnician cosmogony, directly bring-
 "ing

ing in atheism. Now let us see how he
affirms the generation of animals to be, or
"subsist.

He saith therefore: And the air shi-
ning thoroughly with light, by its fiery
influence on the sea and earth, winds were
begotten, and clouds, and great defluxions
of the heavenly waters; And when all
these things first were parted, and were
separated from their proper place, by the
heat of the sun; and then all met a-
gain in the air, and dashed against one
another, and were so broken to pieces;
(whence) thunders and lightnings were
made. And at the stroke of these thunders
the fore-mentioned intelligent animals were
awakened, and frightened with the sound;
and male and female stirred in the earth
and in the sea. This is their generation
of animals.
After these things, our author Sancho-
niatho goes on saying; These things are
written in the Cosmogony of Taautus, and
in his Memoirs, and out of the conjec-
tures,

“ tures, and sure natural signs, which his
“ mind saw, and found out, and wherewith
“ he hath enlightened us.

“ Afterwards declaring the names of the
“ winds, North, South, and the rest; he
“ makes this epilogue: But these first men
“ consecrated the plants shooting out of the
“ earth, and judged them gods, and wor-
“ shipped them, upon whom they themselves
“ lived, and all their posterity, and all be-
“ fore them: to these they made their meat
“ and drink offerings. Then he concludes:
“ These were the devices of worship, agree-
“ ing with the weakness and (want of) bold-
“ ness in their minds.”

I F I had not given the chapter intire,
the manner how I would point and dis-
tinguish the parts could not so easily have
been seen: which seems necessary towards
understanding this dark history. You will
observe, that I read the author's break-
ing off, from the creation of his *man* to
the *Zephesem*, in a parenthesis; which
makes the narration coherent and clear.

The mixture "was the beginning of the
 "making of all things;" of this was be-
 gotten *môt*, and every being in the uni-
 verse, his animals excepted: "Of this came
 "all the seed of this building, and the ge-
 "neration of the universe;" (but not of
 the *Zophesemin*, who were before the Cre-
 ation of the earth, and were formed a-
 like in the shape of an egg,) the *firmam-
 ent*, the sun, the moon, and all the ce-
 lestial bodies were made from this mixture;
 "Thus shone out *môt*, the sun, and the
 "moon, the less and the greater stars."
 By this way of reading we get clear of
 all difficulties respecting the Creation of
 the world, which men of learning have
 laboured in vain to remove.

By the Creation of the world I mean
 the inanimate world; and come now to
 enquire what *Savahoniathô* means in his
 allegorical history of the "generation of
 "animals," beginning with my paren-
 thesis: "But there were certain animals
 "which had no sense; out of which were
 "begotten

begotten intelligent animals, and more cal-
 led Zophesmin, that is the spiean o-
 verseers of heaven, and rulers formed like
 in the shape of an egg. I have thus
 far allowed of the supposition, that San-
 choniato proceeds from his cosmogony to
 relate the original generation of animals;
 but it is now time to reflect upon the
 supposition as a mistake. He saith, "there
 were certain animals which had no sense,
 out of which were begotten intelligent a-
 nimals." Here are animals existing be-
 fore their creation, if Eusebius understands
 their "generation" in the sense which
 seems requisite. But I understand the pre-
 existent "animals in eggs," which gave
 birth to other animals, to mean the o-
 riginal state of angels, who had not re-
 ceived their department, before the Cre-
 ation. And others came in succession af-
 ter them, when the preceding ministering
 spirits retired, their charge being lost in
 the deluge. Upon which it follows, that
 Sanchoniato, instead of accounting for the
 first

first generation of animals, as supposed,
 goes on historically, in his way, with an
 intimation that the first animals which
 had been created were lost; and that
 the generations afterwards were superin-
 tended by the "animals in eggs," which
 having lived in a dormant state, as to
 the care of the world, appeared now "as
 intelligent animals," to the generations
 after the flood. This seems to be pretty
 clearly the sense of the mystery, upon
 attention given to the words of our au-
 thor: "He saith therefore; And the air
 shining thoroughly with light; by it's fiery
 influence on the sea and earth, winds were
 begotten, and clouds, and great defluxions
 of the heavenly waters. And when all
 these things first were parted, and were
 separated from their proper place, by the
 heat of the sun; and then all met again
 in the air, and dashed against one ano-
 ther, and were so broken to pieces; thun-
 ders and lightnings were made: and at
 the stroke of these thunders the fore-men-
 tioned

"tioned intelligent animals were awakened;
 "and frightened with the sound; and male
 "and female stirred in the earth and in the
 "sea." The first article to be examined
 is, "the air shining thoroughly with light;"
 which will be understood, by reflecting on
 the nature of the firmament, as I have
 described and explained it. The power
 of the sun became sensible upon the fir-
 mament, after it had shone through it
 for so many centuries of years, as passed
 from the Creation to the flood. The
 surface next to the earth was the weak-
 est part of this shining substance, the up-
 per parts being more closely frozen, as
 the cold is experienced to increase up-
 wards from the earth. Hence, when the
 time for the flood drew near, the firma-
 ment had gradually lost it's transparen-
 cy, and became cloudy: and, by the
 same "fiery influence on the sea and
 "earth," exhalations ascended from both;
 and the air became violently agitated.
 Whence, of consequence, "winds were
 "begotten,

" begotten, and clouds; " and the melting
 of the firmament poured down upon the
 earth *" great defluxions of the heavenly wa-*
" ters. " By such a horrible tempest,
" thunders and lightnings were made, "
 and every phænomenon had place, which
 might dismay and terrify the wicked in-
 habitants of the earth. All this agrees
 perfectly well with the circumstances of
 the deluge, but is by no means applica-
 ble to the generation or creation of ani-
 mals: for although our author calls these
 the *first* men whom he describes as ido-
 laters afterwards; yet they could not be
 reckoned amongst the animals *" male and*
" female that stirred in the earth and in
" the sea; because he tells us plainly,
 that there were animals of the human
 race who lived before them. *" But these*
" first men consecrated the plants shooting
" out of the earth, and judged them gods,
" and worshipped them; upon whom they
" themselves lived, and all their posterity,
" and all before them; to these they
" made

“made their meat and drink-offerings.”

THIS tradition, as it has been intimated before, comes from *Taautus*, who will be found the son of *Mizraim*, who was the son of *Ham*; which last-mentioned person we may look upon as the disguiser of the cause and history of the deluge. From the rebellious son of *Noah* we cannot expect any reflection on the influence of the rebellious angels, or any lessons inculcating the fear of G O D. Only as an history of the Creation, and of the world, would be expected by his posterity; it was necessary that facts transmitted from *Adam* to *Noah* should be communicated: but it was not necessary to *Ham*'s purpose, that these facts should be as clearly delivered by him, as, we may presume, they were imparted by *Shem*, and *Japhet*; and as *Moses* has published them. I can see here no foundation for a charge of atheism upon *Sanchoniatho*, more than upon any other unenlightened historian.

CHAP. XXII.

On the Situation of the stars, and the Motion of the sun.

POSSIBLY, it may be thought high time to consider the work of the Creation on the fourth day, which is described as follows: "And God said, Let there be lights in the firmament of the heaven; to divide the day from the night: and let them be for signs, and for seasons, and for days, and years. And let them be for lights in the firmament of the heaven, to give light upon the earth: and it was so. And God made two great lights; the greater light to rule the day, and the lesser light to rule the night: he made the stars also. And God set them in the firmament of the heaven; to give light upon the earth, And to rule over the day, and over the night, and to di-

"vide

"wide the light from the darkness. And
 "it was good. And the
 "evening and the morning were the fourth
 "day."

IN the beginning of this relation, the stars are ordered in the firmament of heaven; which was spread, as we have seen, in the waters, or chaotic space of the seas and of the earth: "Let them be for lights in the firmament of the heaven." They were also appointed "to divide the day from the night:" so they are situated on this side of the light, which was the first part of the Creation. By this limitation, they are represented by Moses as in the neighbourhood of the earth, not at infinite distances from it. And by the annexed figures of the *Pleiades*, as seen with, and without, a telescope, a demonstration arises, both of the proximity of the stars, and also of the sun's motion. THERE are more stars within the limits of the *pleiades*, than are noted in the figure; but these which are here expressed

pressed are more than sufficient for the demonstration, that the stars are not far from us, and that the earth is immovable.

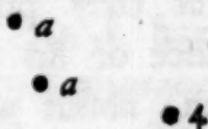


THE above figure shews the pleiades as the naked eye sees them: the next page exhibits them as they are seen by a reflecting telescope, of 18 inches.

THE stars which are numbred in the magnified figure answer to the fix in the above little cluster, and are the only ones that are visible without the help of a telescope. The distance between the first and third appeared, upon a comparison, to be nearly the measure of the moon's diameter. Those marked with *a* have the first degree of magnitude, amongst the telescopical stars; and those with *b* are the smallest. Now for the use of the description.

ASTRONOMERS

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able.



3

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ASTRONOMERS

ASTRONOMERS teach, that the earth, in the compass of a year, takes the same circuit which the sun appears to take, in the same time: moreover they put the earth at about the distance of 80 millions of miles from the sun; about which, say they, it performs an annual revolution, keeping always, nearly, at this distance from it. Upon this hypothesis, when the sun was entering into the sign called *Sagittary*; the earth was going out of the sign called *Taurus*; of which constellation the *pleiades* make a part; as before, the sun was going out of *taurus*, when the earth was entering into *sagittary*: and the *heliocentric* place of the earth is set down accordingly, in an *Ephemeris* for the year 1765. For it deserves notice, that, astronomers send us to the sun to look for the true position of the earth, which they call *Heliocentric*. When the earth is in *taurus*, it is in conjunction with the *pleiades*; and when it is in *sagittary*, it is then in opposition to them. The

The distance, between the places of conjunction and opposition, is the diameter of the earth's orbit, or 1.60 millions of miles. As I have remarked heretofore, an actual approach to an object, shews it, at least, as conspicuously and distinctly, as an artificial approach by a telescope. Wherefore, an actual approach of so many millions of miles towards the *pleiades*, would, at least, present us with a view of their enlarged state, and the increased number of stars; as the telescope shews them in the figure. But the contrary to this happens, and no alteration is perceived in either respect, whether the earth's *heliocentric* place be in one or other of the constellations. Therefore the contrary to the hypothesis is proved true, by the phenomena of the *pleiades*; the earth doth not change it's place, carrying us nearer to the stars at one season than at another. The proximity of the stars to the earth, instead of the hypothetical immense distances of these bodies, is confirmed

firm'd by the same phenomena. A telescope cannot command immense distances; therefore the *pleiades*, which are, demonstrably, within the magnifying power of the instrument, are not at an immense distance, as astronomers have imagined.

My telescope will not command objects ten miles distant; I mean, it doth not shew them at that distance, as perfect as the eye sees common objects, in a common way. But it shews the smallest stars in the figure perfectly distinct: wherefore, they are demonstrated to be very near the earth, as *Moses* describes their situation; and not at the distances assigned them by philosophers.

THE next chapter will demonstrate, that the learned have been altogether as unsuccessful in treating of the phenomena of the lesser planets, as they have erred before in respect of the sun, and the fixed stars.

CHAP. XXIII.

On the Light of the Stars.

AMONGST the stars, some are fixed, or unchangeable in their situations, with respect to one another: the *pleiades* always preserve the same distance from *aldebaran*; and *sirius* is at all times equally distant from *arion*, and from every other of the constellations. But others are called *Planets*, "*wandering stars*," ever shifting from one part of the heavens to another. The latter are said to be destitute of light, which *Moses* attributes to all the stars, without an exception: "*God said, Let them be for lights*" "*in the firmament of the heaven, to give*" "*light upon the earth*." And here, as in all other cases, phænomena contradict the hypotheses of philosophy, and confirm the *Mosaic History*. A few remarks on

the phaenomena of *venus* will evince this truth, that Scripture hath not obtained the esteem which it merits.

THE philosophical phaenomena of the planet may be seen in the fourth chapter of *Gravesande's Elements*: "*It is in conjunction with the sun in two manner of ways, but never in opposition.*" p. 168. The conjunctions are distinguished, by the appellations of *superiour*, and *inferiour*. And the author, in his figure, and references to explain the phaenomena of the planet, marks the *superiour conjunction* by the small Roman *v*, and the *inferiour* by the capital *V*. Putting therefore the words in the place of their signs, the following is a just quotation.

"This planet shines with light borrowed from the sun; and that hemisphere only which is turned to the sun is enlightened, the other hemisphere is invisible: therefore that part only of the enlightened hemisphere which is turned to the earth can be seen from it; in the inferiour conjunction,

"junction, the planet cannot be seen: in
 "the superiour, it would appear round, if
 "the sun's rays did not hinder it from be-
 "ing seen." p. 170. "Going from the
 "superiour conjunction the planet continual-
 "ly decreases; — and continues to de-
 "crease, till it vanishes at the inferiour
 "conjunction; and then again increases suc-
 "cessively, changing it's figure, till the whole
 "enlightened hemisphere be turned towards
 "the earth." p. 171.

PERMIT me to compare my own
 observations with these doctrines, which
 are termed phenomena. The superiour
 conjunction happened on the sixth day
 of June, 1765. From which time I con-
 tinued, a great while, to watch attentive-
 ly for a sight of the planet, near the
 setting of the sun; being confident; that
 if the whole body was enlightened, it
 might be seen presently after the sun
 was gone down, when the planet had
 moved a little way beyond the place of
 conjunction, from the power of the sun;

or might even be seen with the sun; as I had found it to appear after the preceding inferior conjunction. Four months passed, before I could discover the object of my attention. For I find, by my notes, that the 25th of September was the first evening of my perceiving the planet, which was gone then a good way from the sun, of which course I had nearly an horizontal view. I had fitted hairs in my telescope, by the help of which, and without them indeed, it was clear enough that the planet appeared less than I had ever observed it before: which was certainly the cause of my not perceiving it sooner. But the excessive lustre, of this small body of light, made it impossible for me to ascertain the bounds of the light; or the figure of the planet. It troubled me much, that I could not, for a considerable space of time, define the planet, by reason of its flaming splendour, perceiving it to increase continually, whereas philosophy says, that the

“ planet

"planet continually decreases" after this conjunction, "and continues to decrease till "it vanishes;" and I feared it might attain it's full form before I should be able to mark it's alterations. For I was convinced in my own mind, that the form of the planet was *lunular*, as in the other conjunction, but wanted an ocular proof. I had an aperture made in the screw-piece that closes the tube, but this rendered the vision dark, and confused. The aperture was enlarged; and, after many trials, I partly attained my purpose. For a hollow appeared, very evidently, on the left hand, whilst the right side appeared complete, as a growing moon. Afterwards, when the piece was taken off, venus shone like the moon when near her first quarter; the lustre still causing however a slight disturbance of the vision, but not hindering the perception of the planet's form. The confusion was at last quite removed, by making the observation as early as possible in the evening,

evening, whilst the day-light weakened the glare of the planet's light, especially if a cloud coming over it caused the light to be more faint and dim, so as barely to make the planet a visible object without a telescope. In these circumstances, the figure and shape were very distinctly observed.

U P O N this comparison of experiment with theory, venus is found to be increasing, at the time when philosophy will have it that "*the planet continually decreases, and continues to decrease, till it vanishes.*" And the error arises from the attempt to make venus an opaque body, and, on that supposition, to explain the variations of it's form, by the sun's rays enlightening the parts of the planet on which they fall, and bringing darkness on the part of it's surface from which they are withdrawn. But the sun by his fiery influence disrobes the planet of her gaudy brightness, leaving her in darkness and obscurity, instead of giving her lustre,

tre, at the time when she is smitten by the full force of his rays. However the light of the planet is only obscured, not destroyed by the violent heat, shining brighter, after a while, when it is freed from the sun's dominion, as if purified by the fire. The planet is enlarged, as all bodies are, by heat; but much more in the inferior conjunction, than in the other. After the increase, mentioned above, is completed, and venus returns towards the sun, her light decreases, like the light of the moon, till it perishes at the conjunction. This I had seen before; and was astonished at the increase of the moon-like phase by the conjunction, which proved the increase of the whole body of the planet, although the resurgent light only shewed it self.

THE distinction is very visible between the different conjunctions of the other planets also. I do not speak of mercury, having never yet been able to see him when a morning star, in the evening

ing he appears small as *mars* in miniature, and not according to his description in Dr. Keill, p. 33 : “ *Mercurius semper in*
“ *vicinia solis commoratur : propius semper*
“ *abest a sole quam venus ; adeoque, veneris*
“ *æmulus, in orbita minore intra veneris or-*
“ *bitam conclusa et solem ambiente necessario*
“ *locandus erit. Præcipue vero, cum eum so-*
“ *li quam proxime esse ostendit egregius illi-*
“ *us splendor, quo et veneri cæterisque pla-*
“ *netis longe antecellit.* ” But with regard even to *jupiter*, although the sun has not power to give him a sable countenance, his face is nevertheless strongly marked by the sun’s impression. These marks, I believe, are only seen a little while after the inferior conjunction. Not that I apprehend the planets to be more remote from the sun in one conjunction than the other, but the cold exceeds in the regions above the sun, and mitigates the force of his fire.

THE same cause also continues their dimensions to the planets, with the least alteration,

alteration, in the superiour conjunctions. For cold is a kind of *vis inertiae*, to keep bodies, condensed by it, in a state of rest:

“The end of cold, is a state of absolute
“rest between coherent particles; and the
“end of fire, a perpetual agitation of dis-
“solved particles.” Boerb. p. 220. The

author speaks again to the same purpose, p. 222: “Cold — makes the several

“parts whereof the body consists, cohere more
“strongly to each other, so as not to be so
“easy to be torn or separated from the ad-
“joining one, as before: which is another
“cause of the stability found in bodies.”

Hence, though the cold cannot prevent, altogether, the tokens of the sun’s superiour power; yet, the planets being less dilated in this conjunction than in their inferior appulse to the sun, they are consequently denser, and firmer; and so continue less liable to an alteration. “All

“bodies of a solid structure are equally sub-
“ject to this action of cold; nor has any
“been yet found, however dense and com-

M

“part,

"*fact, but cold renders it still denser, not even excepting diamonds the hardest of all known bodies.*" p. 219. Which phenomenon corroborates, further, the account of the firmament before given.



CHAP. XXIV.

On the Light of the Sun.

BESIDES the stars, "GOD made two great lights; the greater light to rule the day, and the lesser light to rule the night." These are indisputably the sun and moon: both of which, notwithstanding their obvious appearances, have been spoken of by the learned in terms contradicted by their phenomena. We will begin, according to the order of Scripture, with the sun.

COMMON-SENSE induces us to believe, that heat comes with light from the

the sun, as from it's fountain. Yet Dr. Boerhaave differs from the common notion; whose abilities and care, as one would imagine, enabled him to judge of the nature of heat, or fire, as well as any man whatsoever; who asserts also, that "there is but one kind of fire in all nature; and, that elementary and artificial fire are always the same." p. 366. But let us examine the grounds and reasons of the Doctor's departure from the general opinion: "I have been in suspense some time, whether or no I might venture to publish an opinion which has frequently employed my thoughts; and at length have determined to do it. It is probable, that, in the action of fire observed among us, the sun does not emit any fiery matter, to which such action should be attributed; but, that this luminary only has a power of directing the fire; already existing in any place, into parallel right lines; from whence, the same quantity of fire, being again collected, out of

“ it's parallalism, by reflection, or refraction,
“ and united still closer, acquires new powers;
“ and thus is enabled to produce all it's ef-
“ fects. To illustrate this by an easy expe-
“ riment: Suppose a hollow brass cube, up-
“ wards of three inches square, and closed
“ every way; except, that one side being
“ taken off it is left open there; and suppose
“ this cube directly opposed by it's open side
“ to the sun, only covered with a white pa-
“ per: In the cavity of it apply M. Fahren-
“ heit's tender thermometer, which consists
“ of a moveable spirit, while the paper pre-
“ vents the sun's rays from penetrating the
“ cavity of the cube; and if the wea-
“ ther be cold, we shall find an intense cold
“ in the whole vacant space of the cube.
“ Take away the paper at once; and, at
“ the moment that the cavity of the cube is
“ illuminated by the sun, there immediately
“ arises a considerable heat, which the thermo-
“ meter indicates. Philosophers usually main-
“ tain, that the heat here admitted was sent
“ from the sun's body with a velocity scarce
“ to

“to be conceived: to me it rather ap-
 “pears, that the sun has only done now
 “what it did before, and which it always
 “does, viz. determine what we call fire in-
 “to right lines, which can now reach the
 “opaque body, without any obstacle; and thus
 “drives the fire, which before, while the pa-
 “per interposed, was equably diffused through
 “the six containing squares: drives it, we
 “say, without altering it’s quantity, in right
 “lines opposite to the open one; and thus
 “beats the whole cavity, but especially such
 “side, by merely directing the rays; and not
 “by any increase of their number. Or
 “suppose M. Villette’s speculum to be di-
 “rectly opposed to the noon-day’s sun, but
 “covered over with a white veil; we shall
 “have no more fire or heat produced in it’s
 “cavity behind the veil, than at any where
 “else: but at the instant you remove the
 “veil, the fire, which before remained in-
 “determined in the cavity of the speculum,
 “is driven in parallel lines against the con-
 “cave reflecting surface of the speculum;
 “by

"by which means the vehement fire is pro-
 "duced, in it's focus, and not as usually
 "imagined, projected from the sun. In
 "effect, 'tis neither more nor less now
 "than before, but only in a different di-
 "rection. The same will hold in a refract-
 "ing burning-glass. And thus, neither the
 "fire produced by collision, nor by a burn-
 "ing speculum, nor a glass lens, appears to
 "owe any thing of it's matter to the sun."
 p. 281, 282.

Do not these experiments conspire a-
 gainst the author, who would force them
 into his service? The former is much
 as if I should stand in a room, near an
 outer door, exposed to the sun's rays;
 and finding the heat troublesome, should
 shut the door, and obtain an agreeable
 coolness. If I pronounced the quantity
 of heat the same in the same place, af-
 ter the exclusion of the rays, as at their
 admittance, when a cool succeeded upon
 the absence of the sun's heat, no one,
 surely, would credit my assertion. Next
 for

for the speculum, or lens, Here is first an exquisite polish, of a proper figure, which collects the rays in a prodigious quantity, as is manifested by the wonderful effects of the collection, when the abundance of rays, thus united in one place, are reflected or refracted. A veil is put over the speculum, and it presently loses that power which before appeared. What else could be expected? Suppose the speculum should be spoiled by a multitude of scratches. Certainly it cannot, after this, be regarded as a speculum; when it is reduced to a piece of rough metal. The veil has a temporary effect, like that of the destructive scratches, which would intirely cause the combination of rays to cease, and then the effects succeeding such a collection must cease likewise. But in the first case the admission of the sun's rays causing heat in the cube, which ceased upon their exclusion, is a sensible proof, that the heat proceeds from the sun. And in
the

the other instance, where a collection of an immense quantity of rays into one place shews surprising effects, the proof is evident, that these effects are owing to the quantity of rays collected, and issuing together, by means of the lens, or speculum. The burning-glass has almost an incredible power: “ *All combustible bodies placed in this focus immediately burn; lead melts instantaneously; and tiles vitrify, if long enough held in it.* ” p. 278. The speculum has yet a greater power: “ *The ultimate effect of any momentary action of fire, hitherto observed, is to turn flint to glass; which is done in the focus of Villette’s speculum: nor has any effect greater than this been ever known. For though lightning will instantly melt iron, it has never, I think, been known to vitrify, either stones or metals.* ” p. 277. It seems here to be the author’s opinion, that lightning never *vitrifies* any subject. But there is, in this neighbourhood, a ball of glass judged to be a thunder-bolt,

der-bolt, from the following tradition :
A great-uncle to the gentleman who has now the ball in his possession was afflicted with deafness, in a great degree ; who being in his orchard heard a noise over his head, which caused him to look upwards ; whereupon he observed the bark cut from the limb of a tree, under which he was standing, as by a stroke from something that had fallen from above ; and looking down he saw the ball which has been mentioned, lying on the ground before him. It is cracked deep within the surface, which is certainly the effect of the stroke. The form of the bolt is somewhat elliptical : it's largest dimensions are almost seven inches ; and the least a little more than six inches and a quarter : the weight is almost seven ounces.

THAT subjects capable of vitrifying are lodged in the air, is incontestible ; which “ *may be properly considered as an*
“ *universal chaos, consisting of almost all*
“ *kinds of corpuscles, confusedly jumbled toge-*
N “ *ther,*

“*ther, and constituting one mass.*” p. 399. Wherefore a plenty of corpuscles may stand in the way of lightning, liable to run into a mass, and to make a larger thunder-bolt than the above-mentioned one. Hence it is proved, that lightning, which is a collection of rays and therefore acts like the focus of a speculum, is not exceeded in the force of it's operations, by any devices of art. It is also proved, by all that has been said concerning the effects of the sun's rays, that fire is increased, in any assigned place, by increasing the quantities of rays, in the same place.

COMMON experience informs us further, that the fiery globe of the sun drawing towards us brings heat, and the season which we call summer; and that it afterwards retires from us, and leaves us, by that means, cold, and winter. But astronomy contradicts this, teaching that the sun is nearest to us in winter, and most remote in summer: “*Cum in æ-*

“*tate*

"tate terra longius a sole distat, hyeme
 "propius ipsi accedat; mirum fortasse vi-
 "detur, recedente sole terram magis inca-
 "lescere; hyeme autem, cum propius soli ad-
 "stamus ingravescere frigora." Keill. p.
 93. It seems strange indeed, as this emi-
 nent astronomer says, that it should be
 hottest in summer, if the sun then goes
 from us; and, that the cold should come
 on severely in the winter, if we are then
 nearest to the sun. Several salvos are set,
 as arguments, against the testimony of
 phænomena, which may be found sub-
 joined to the quotation.

It seems more pertinent, to me, to
 examine the philosophical reasons for as-
 signing the sun's approximation to the
 winter; and his going off from us to
 the summer. I should have said *reason*,
 and not *reasons*; for I know but one
 argument alleged as a proof, that the
 sun is absent from us in summer; and
 present with us in winter; which is, that
 the apparent diameter of the sun is least

in summer; and greatest in winter. "Ob-
 "servationes quoque ostendunt diametrum so-
 "lis apparentem tempore hyberno, ubi mo-
 "tus ejus est velocissimus, majorem esse quam
 "in æstate, ubi sol tardissime incedit. Et dif-
 "ferentia quidem tanta est, ut hyeme, ubi
 "sol maximus apparet, videtur sub angulo
 "32', et 47": at æstate, ubi minimus, e-
 "jus diameter est 31', 40'; quæ differen-
 "tia minuto major est; adeoque longius
 "debet abesse æstate, quam hyeme. p. 86.

IF a cause can be assigned for the in-
 crease of the sun's diameter upon the
 increase of his distance from us, all is
 safe; we may still trust our senses before
 philosophy. *Refraction* then, is the obvi-
 ous cause of this phænomenon; whose
 effects have not been duly studied, or re-
 garded. What is meant by refraction, is
 better known than that any thing is ne-
 cessary to be premised, by way of de-
 finition, or explanation. Let it only be
 considered, that "in general, the eye be-
 "ing placed in a rarer medium, the object,
 "that

" that is seen in a denser medium, appears
 " bigger, and is also brought nearer, by re-
 " fraction. This is every day confirmed by
 " experience, when we look at objects in the
 " water," Graves. p. 69. A winter-sun
 is depressed towards the horizon, where
 it is subject to refraction; from which
 the summer-sun is free in it's elevated
 state: "*Quo obliquior est radius in terram*
 " *incidens, eo major est refraetio; adeoque,*
 " *in horizonte refraetio est maxima. Et stel-*
 " *la magis quam 50 gradibus supra hori-*
 " *zontem elevata, nulli sensibili obnoxia est*
 " *refractioni.*" Keill. p. 312. Wherefore
 the winter-sun " appears bigger by refrac-
 " tion." Hence the apparent increase of
 the dimensions of an horizontal sun and
 moon are easily accounted for. See p. 101.

ONE instance more may be here in-
 serted, concerning the effects of refracti-
 on, that the *needle* is directed towards
 the north from the same cause. This ap-
 pears from an experimental proof, of the
 effect of refraction upon the needle by
 glass,

glass, and the certain knowledge that the refraction of the densest air bears a proportion to the refraction of the glass.

"Nor must it be omitted, that this pure elementary fire, if directed by the sun through the burning-glass of M. Tschirnhaus, so as to fall on the iron needle of a mariner's compass in the very point of the focus or contact, will drive the needle round on it's pivot, by a true corporeal percussion." Boerh. p. 359. The

cause of driving the needle round on it's pivot is the force of the sun's rays, collected to a sufficient quantity, by the refraction of the lens. Therefore any other refraction collecting the rays in a somewhat like manner, must have a somewhat like effect upon the needle.

Now consider how great the attractive force of the air must needs be in the north, where it's density is so much greater than in places nearer the line. And it has indeed been proved by experience, that, in the cold dense air of the

the northern regions, the rays are attracted *thither* with a force not unlike that of a lens. M. *Maupertuis* was sent by the French king, to determine the figure of the earth near the polar circle. From whom we have the information following:

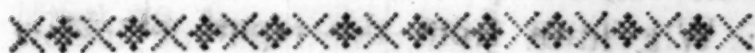
“ Tho’ in this climate the earth is thus
“ horrible, the heavens present the most
“ beautiful prospects. The short days are no
“ sooner closed, than fires of a thousand
“ colours and figures light up the sky;
“ as if designed to compensate for the absence
“ of the sun, in this season. These fires have
“ not here, as in the more southerly climates,
“ any constant situation. Though a luminous
“ arch is often seen fixed towards the north,
“ they seem more frequently to possess the
“ whole extent of the hemisphere. Sometimes
“ they begin in the form of a great scarf
“ of bright light, with it’s extremities upon
“ the horizon, which, with a motion resembling that of a fishing-net, glides swiftly
“ up the sky, preserving in this motion a direction nearly perpendicular to the meridian:
“

"ridian: and most commonly, after those
 "preludes, all the lights unite at the zenith,
 "and form the top of a kind of crown.
 "—— Their tops are all placed in the
 "direction of the meridian, though with
 "a little declination to the west; which
 "I did not find to be constant, and which
 "is sometimes insensible. " Newberry's Col-
 lect. vol, 20. p. 207, 208.

WE learn from this report of *facts*,
 that the dense air of the north very
 powerfully refracts the solar rays, "in
 "the direction of the meridian: By which
 refraction, the rays, being drawn to the
 north, will hold the *direction* of the nee-
 dle in the way of their emanation. The
 author found the direction of the light
 to be "with a little declination to the
 "west;" and our pole of the earth
 moves, in the language of philosophy,
 westward continually; and therefore car-
 ries the dense attracting air the same
 way: "*Polus semper fertur, motu lentissimo,*
 "*ab oriente in occidentem.*" Keill. p. 82.

This

This is also according to the *variation* of the needle. But he found exceptions to the rule of the light's direction; which are likewise found in the direction of the needle: "*Poli magnetis nec, in eodem loco, constanter eandem mundi plagam indicent.*" Mercator. Institut. Astron. p. 10.



CHAP. XXV.

On the Light of the Moon.

THE moon is one of the bodies which *Moses* calls great lights: "*GOD made two great lights; the greater light to rule the day, and the lesser light to rule the night, the stars also,*" to have influence, with the moon, towards enlightening the earth by night. Which is thus expressed by the *Psalmist*, "*the moon and stars to rule by night; for his*
O " *mercy*

“ *mercy endureth for ever.* ” Ps. cxxxvi.
 9. But notwithstanding the attribution of light to the moon by it's CREATOR, and the faithful relation, of what GOD wrought, by *Moses* his inspired servant ; the philosopher asserts that the moon gives not a proper light to the earth, but only reflects the light of the sun. The foundation for this assertion is, that the moon is eclipsed in passing through the shadow of the earth, or rather the shadow of the atmosphere : “ *An eclipse of the moon, is the obscuration of the moon by the shadow of the earth.* ” Graves. p. 176. The author corrects himself in the next page, and ascribes the eclipse to the shadow of the atmosphere, imputed before to the earth's shadow : “ *We have hitherto spoken of the shadow of the earth ; because when we mention the earth, we understand it's atmosphere which is joined to it : the shadow of the atmosphere is properly considered in lunar eclipses ; for the shadow of the earth it self does not reach the* ”
 “ *moon.* ”

"moon." We may say, concerning such philosophy, as *Job* speaks in his twelfth chapter: "Ask now the beasts, and they shall teach thee; and the fowls of the air, and they shall tell thee, Or speak to the earth, and it shall teach thee; and the fishes of the sea shall declare unto thee." v. 7, 8. A worm, a bone, a piece of wood, and other substances inform us, that bodies apparently light are not obscured by shadows, or darkness: on the contrary; they are more conspicuous when the prevalent light of the sun is withdrawn from them. Besides, a shadow hanging to the earth is a chimaera; the light of the stars preventing such a shadow, which were appointed "to give light upon the earth." Gen. i. 15. Moreover, the moon is seen uneclipsed by clouds endued with *substance*; and cannot therefore be cut off from our sight by, the interposition of nothing but, a shadow.

BUT curiosity may ask, What then is

the nature of the moon's light, if it reflects not the light of the sun? If you can see the moon when she is very near the sun, a little after or before a new-moon; you may perceive very distinctly the face of the old-moon, which is gradually covered by the new growing over it. It is a curious and pleasing sight to observe these different phases by the telescope. Once or twice, I have seen the old-moon white; when it resembled white paper as viewed by a magnifying glass: but it generally happens, that the old-moon, though sensibly discerned, has only a faint light, or a dusky appearance, like the dinginess observable on a full-moon. The new grows over the old, more and more, daily; till at last the one is totally covered, and hid within the other. The covering is *ice*; which spreads in this manner: On the left side, where the hollow of the growing moon appears, crystals shew themselves distinctly, and separately, some in lines, others in small surfaces;

faces ; and in many parts there is no visible shoot, or linear extension of the crystal, but points, and specks, or greenish vivid spots of different sizes. The next evening, the crystals of the preceding day are lost, in the increase of the new-moon's dimensions : And then other crystals appear, onward the same way, and in the same manner, as before ; which submit likewise in their turn to the spreading ice. Thus it continues till the moon is full, only the crystallization is not performed in so very minute a manner as at the first. When the full-moon is completed, the ice begins to break on the right side, and, as it wears away, presents the same phænomena on the decreasing side of the moon, as were seen before by the increase.

FROM hence I am persuaded, that the moon is a composition of cold ; as the sun is a fire. And I submit it to the consideration of better judges than myself, whether the nearest salts, contained
in

in the waters, which were left above, may not be attracted by the cold moon, and there frozen? and whether this attraction may not be continued, from the finest and purest vapour above, down to the waters of the sea? and lastly, whether the flux and reflux of the tides, and other phaenomena, may not be imputed to this attraction?

THAT the case, or covering, of the moon should continue to grow, from what is called the new-moon to the full; and then decrease on the side where it increased before; is according to the laws of nature: which require, that salts, which promote freezing, should be dissolved by hot water, and let go as the water cools.

*“ Water heated only to 32 degrees dissolves
“ the slowest, and retains the least quantity
“ of salt; whilst that of 212 degrees, being the boiling-heat, suddenly dissolves, and
“ copiously retains, the salt; and so in the
“ intermediate proportions. Thus if boiling
“ water has dissolved as much salt as possible,
“ sible,*

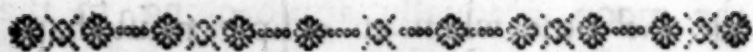
“ fible, and then be set to cool, it every mo-
“ ment lets fall some of the salt, till it
“ comes to 32 degrees of heat; when it
“ will have dropt a large quantity of solid
“ salt; and if now exposed to a freezing
“ cold, it lets fall still more, till in the
“ sharpest frost of all, the salt will be al-
“ most totally excluded, and as long as this
“ degree of cold continues stick undissolved
“ to the ice: but the first salt-water which
“ in the sharpest frost expelled the salt that
“ still sticks to the ice will much sooner melt,
“ by reason of the salt, than the water would
“ do if pure. For as the salt mixed with
“ the water prevents it freezing so soon as
“ pure water; so in the same degree of
“ heat the salt sticking to the ice makes it
“ thaw; whereas without this salt it would
“ require many more degrees of heat before
“ it turned to water.” Boerh. p. 448,
449.

THE frost is most severe on the part
of the moon where the ice first appears,
from the excess of salts on that quar-
ter

ter dissolved and copiously retained in the freezing waters there, which have been intensely heated by the fire of the sun, and cooled by the fore-part of the exquisitely cold moon sufficiently for being frozen by the hinder-part. As the salts promote the congelation, so they also cause a thaw; whereby the right side of the moon, which had the most solid ice by means of the superabundant salts sticking to it, begins first to lose it's ice by the means which first produced it: *"the salt sticking to the ice makes it thaw."* The waters growing cooler onwards in the moon's path, fewer salts are dissolved and retained in them. Here therefore the frost sensibly abates; so that the naked eye sees a darkness upon the increasing surface, instead of that lively brightness which the new-moon assumed: the *"silver is become dross."* The part on the left hand now meets the severity of the freezing which commenced on the right side; as
the

the moon gradually approaching to the sun passes through waters increasing in their degrees of heat, and therefore containing increasing proportions of dissolved salts; which harden the ice in so great a degree, that it is capable of enduring the sun's fire when near it, as at the season of the new-moon. To this intolerable heat it gives way however at the last, being intirely dissipated by it. Such a kind of crystal cannot want lucidity: the diamond "*by means of water made a little more than luke-warm might be brought to shine in the dark.*" p. 121. n. Not that the moon is ever without brilliant company, being never forsaken by the stars, confessedly lucid.

WATER and all other bodies, in a spiritual state, have their places naturally above the firmament, not having density to descend thither with the other less subtle particles which were congealed there at the Creation, and may be esteemed as something like an essence of the original chaos.



C H A P. XXVI.

On the Eclipses of the Sun and Moon.

MAN Y persons seem inclined to favour the *Copernican* system merely from this consideration, that eclipses are predicted by the friends of that system; which they imagine could not be foretold by them, if their notions were not founded upon just principles: whence it becomes necessary to remove this prejudice; that truth may stand as fair for admittance as error.

IT may be premised, that the followers of *Ptolemy*, *Copernicus*, and *Tycho Brabe*, have constantly predicted eclipses alike, notwithstanding their diversity of opinions, about the motions of the sun and the earth: yet none of them have assigned the true causes of the eclipses, although they were all enabled to point
out

out the time when an eclipse must happen, if the time was near; but none of their rules have been deemed sufficiently exact, to determine the precise time of eclipses for ever, or for a good number of years to come. The cause of their inability to do this will easily appear.

EVERY one knows, that eclipses depend upon particular positions of the sun and moon: therefore if the motions of these planets, or of either of them, are not accurately determined by the rules of philosophy; their positions at all times cannot be accurately known, and, by consequence, the eclipses cannot be accurately predicted. Now it is observeable, that astronomers have been continually finding fault with their predecessours, and have indeed proved, that their rules for determining the motions and positions of the planets have not corresponded with phænomena, for any considerable space of time. About the middle of the thirteenth Century, *Alphonfus* king of *Spain*,

with the assistance of *Arabians*, *Moors*, *Egyptians*, *Hebrews*, and *Spaniards*, who could best advise in such a case, constructed tables of astronomy; which, as may be easily guessed, were for a time in high esteem. About the middle of the sixteenth Century, *Copernicus* stood up, and found such faults in the labours of *Alphonfus*, and others before him, that he rejected the *Ptolemaic* System, according to which their calculations had been formed. Almost presently upon this, *Tycho Brake* produced demonstrations, that neither *Copernicus*, nor *Alphonfus*, could be trusted; both differing widely from phænomena; the conjunctions of *saturn* and *jupiter*, in the year 1563, in the sign *cancer*, not answering to the account of either of the astronomers, but differing therefrom by the space of some days. He discovered likewise, that the places of *mars* and *mercury*, assigned them by *Copernicus*, were very different from their true places in the heavens; insomuch that he had sometimes

erred

erred from the truth by the space of three or four degrees. But *Tycho*, who could demonstrate these errors of astronomers, is corrected also himself by others, and particularly by *Bulliald*. And the panegyrist of the last-mentioned astronomer owns, that his esteemed friend also missed the truth, in his endeavours to make a theory of the planetary motions: he says, it is clearer than the light, that *Bulliald*'s tables are not so finished, as to answer the expectation conceived of them, differing from phænomena; whereof, he tells us there is proof, in the instance of *mars*, and the eclipses of the *sun* and *moon*. See *Wing's Astron. Britan. pref.* After these great names, and many others which are omitted, *Dr. Halley* published his tables; by which " he shewed, from his own
" observations, that former astronomers
" had been defective, in calculating the
" motions of the heavenly bodies; — and
" that the obliquity of the ecliptic was no
" less erroneous. " *Annual Register*, 1759.

p. 284. This renowned astronomer has not left the world for the space of an age; and yet his, once highly valued, tables are already disregarded, according to the fate of others. Mr. *Witchell* in his representation of the sun's eclipse for the year 1764, neglected Dr. *Halley*, and used Mss. tables, as he informs us, of the late Mr. *Simpson*. I take this gentleman to be the person, who has public encouragement for printing *new lunar tables*; concerning which I will venture to foretell, that they will fail of the expected end, as all others have done.

FROM what has been said upon this article, it seems to be plain, that a theory of the moon's motion is not attainable by these principles of astronomy, on which their construction has been attempted. Yet her phases, and revolutions, are well enough predicted, by the old rule in the *Kalendar*, for a short space. And this rule rectified, at times, as observations direct, determines the moon's age to a sufficient degree

degree of accuracy. So that which seems to be the old method used in the prediction of eclipses, will in like manner, I suppose, serve the purpose; as well as the golden numbers serve to point out the times of the new-moon.

THAT astronomers have mistaken the cause, though not the seasons, of eclipses is demonstrable by phænomena. In an eclipse of the moon, that planet is, often nay almost, always visible: “*Even when*
“*the eclipse of the moon is total, the moon*
“*scarcely ever disappears intirely; she almost*
“*always appears more or less reddish.*”

Regn. p. 274. The explanation of these phænomena, by the hypothesis of refracted solar rays, has been attempted in vain; as was demonstrated p. 41. It has also been shewn, that the hypothesis of a terrestrial shadow, in the open face of the moon, or, with the brightness of the stars, is a mere chimæra.

ANOTHER objection also deserves notice: “*A very rare event, and which*
“*seems*

“ seems to overturn your principles, is, that
 “ the moon is eclipsed sometimes in the sun’s
 “ presence, when these two luminaries ap-
 “ pear near the horizon. These horizontal
 “ eclipses have been seen in divers ages.
 “ They had seen of them, at least, in the
 “ time of Pliny. They saw another, the
 “ 17th of July, 1590; at Tubinge. A
 “ third was seen, at Tarascon, the 30th
 “ of November, 1648; And a fourth, in
 “ the island of Gorgone, the 16th of June,
 “ 1666. ” p. 281. The answer follows
 the objection: “ The sun and moon are
 “ not in that case both actually above the
 “ horizon; but the refraction, which ele-
 “ vates objects, as we have said, elevating
 “ these luminaries, at least one of them,
 “ namely the sun, makes them both to ap-
 “ pear at the same time above the horizon. ”

But the question is not, Whether bodies
 actually below the horizon may be made
 to appear above it? The difficulty de-
 manding a solution is this: How the
 moon can undergo an eclipse, when she
 is

is opposed as an open mark to the full force and brightness of the sun's rays? This is the difficulty, which neither is nor can be solved, upon the received principles of philosophy.

As it appears impossible, that lunar eclipses can be accounted for upon the hypotheses of astronomers; so it is also demonstrable, that solar eclipses are equally incapable of explication by the present theory; which will be evident by stating a plain matter of fact. Philosophers say, an eclipse of the sun is owing to the moon's interposition, between the sun and the earth; whereby the moon, which is supposed an opaque body, prevents the rays of the sun from coming to the earth. But at the time of the last central eclipse, which happened on the first of *April*, in the year 1764, *the sun was certainly between the moon and us*; and therefore the moon could not darken the sun by her interposition. For the sun was then entred a little way in *aries*, in his

Q

return

return from the south towards us ; and the moon was behind the sun and overtook him, by her swifter motion, in her circuit from the south, round by the east, to the north. So she passed on the south-side of the sun towards the east, and came not about between the sun and us, until the full-moon, which was on the sixteenth day of the month. As the moon was behind the sun, so the sun was to be seen, very plainly, during the eclipse ; which could not be if the moon lay, an opaque body, in the way between us and the sun. When the sun is departing from us to warm the southern parts of the globe ; the moon, hastening after him, is then upon every solar eclipse between the sun and us : at which times the same phænomena are natural in the southern hemisphere, which we saw in the eclipse above-mentioned. For it is worthy our notice, that when a solar eclipse happens, the moon cannot stand as an impediment to the sight of the sun with the inhabitants

bitants both of the north and south of the earth, at the same time. Therefore it is clearly demonstrated, that eclipses cannot be explained from those principles which are contrary to Revelation. But let us see whether they are not easily explicable upon the principles laid down by *Moses*, and proved in these papers to be true, agreeing with phænomena.

THE moon having been proved invested with a covering of ice; the same phænomena must attend the moon, when exposed to the sun's rays, as are observable on the surface of a piece of ice, when exposed to heat. Now we are assured, that the warmth of the hand, or of the air in the heat of summer, will draw a cloud about an icy surface: "By
" *exposing a piece of ice to the air in the*
" *heat of summer, an aqueous vapour will*
" *presently appear as collected about it's sur-*
" *face; and if held near to the hand, a*
" *vapour manifestly arises, betwixt the ice*

return from the south towards us ; and the moon was behind the sun and overtook him, by her swifter motion, in her circuit from the south, round by the east, to the north. So she passed on the south-side of the sun towards the east, and came not about between the sun and us, until the full-moon, which was on the sixteenth day of the month. As the moon was behind the sun, so the sun was to be seen, very plainly, during the eclipse ; which could not be if the moon lay, an opaque body, in the way between us and the sun. When the sun is departing from us to warm the southern parts of the globe ; the moon, hastening after him, is then upon every solar eclipse between the sun and us : at which times the same phænomena are natural in the southern hemisphere, which we saw in the eclipse above-mentioned. For it is worthy our notice, that when a solar eclipse happens, the moon cannot stand as an impediment to the sight of the sun with the inhabitants

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 " exposing a piece of ice to the air in the
 " heat of summer, an aqueous vapour will
 " presently appear as collected about it's sur-
 " face; and if held near to the hand, a
 " vapour manifestly arises, betwixt the ice

"and the surface of the skin." Boerh. p.
 436, 437. And from hence we may con-
 clude, that, at the time of a lunar e-
 clipse, when the sun's rays issue directly
 against the moon's surface, although at
 a very great distance from it, they have
 power to excite this "*aqueous vapour*"
 or cloud; which, according to the differ-
 ent proportions of it's density, must af-
 fect the moon's face in a different man-
 ner; and may quite obscure it, or leave
 it more or less perceptible; as we see
 by the different effects of different clouds
 passing over the planet. If therefore when
 the moon is at her full, she be near e-
 nough to the sun, that they may "*look*
 "*one another in the face*;" an eclipse
 will necessarily happen: And this is the
 position which astronomers refer to; when
 they say, that the moon must be in her
nodes or nearly so to make an eclipse pos-
 sible. At other times the sun is too far
 below the horizon in respect of the moon,
 so that a straight line cannot be drawn
 from

from the one to the other; the rotundity of the earth preventing it. These planets may see one the other when we cannot see them both. No one will doubt, that if a person could stand on a very high tower, or rather on the summit of a very high mountain; he would have a view of celestial bodies, both in the east and west, which disappear to observers in a less elevated station.

At the time of the sun's rising, the cloud, causing the eclipse, may be so suddenly and powerfully raised over the moon, as to cause her vanishing out of sight, which has been sometimes known to happen: "*But how comes it, that, during the eclipse, the moon sometimes disappears in a clear and serene heaven; before the time of setting, before the twilight can make her disappear?*" Reg. p. 277. The philosopher is perplexed to find an answer, but we see the phenomenon is natural, according to the *Mosaic System of nature.*

So

So in a solar eclipse: the moon, when on that side of the sun which is turned from us, by a powerful attraction of the rays from the place of our dwelling, leaves us but a gloomy light, such as we observed in the eclipse before-mentioned. See more concerning the exhibition of contrasted views to the *antæci* of the earth in the first volume.



CHAP. XXVII.

On the appointment of the stars for Signs and Seasons.

THE Light of the stars, and also the deficiencies of their light have been examined. This examination has fully manifested, that the phænomena of the celestial bodies confirm their original appointment: “*Let them be for Lights in*” *the firmament of the heaven to divide the* “*day*

“ day from the night, ” They were to be of further use to mankind, by the command in the following words : “ *And let them be for Signs, and for Seasons, and for Days, and Years.* ” The annual motion of the sun, makes continued alterations in the rising and setting of the *fixed stars* ; which engaged, in ancient times, the attention of husbandmen, and of those that were to go down to the sea in ships ; who judged from hence, whether fair or tempestuous weather was coming on, and which were the proper *seasons* for the different sorts of husbandry : *Virgil* and *Horace* speak the sense of the ancients upon both these points. We learn moreover from the former, that the sun was thought to give the surest signs ; “ *Solem quis dicere falsum Audeat ?* ” And a reliance on the alterations in the sky by the sun’s rays continued amongst the Jews, in the days of our LORD’s appearance amongst them ; which may be read in the sixteenth chapter of *St. Matthew*.

thew. From the aspects of the smaller planets also, if we credit history, future alterations of weather have been foretold; of which there is a famous instance in the third volume of *Modern History*, p. 299, 300: where we are told that, in the year of our LORD 1095, a deluge was predicted by the astrologers at Bagdad. “*And in conformity to this prediction, it happened, that most of the pilgrims going to Mecca, who had pitched their tents in the valley of Al Manakeh, were carried away by an irresistible torrent, together with their beasts of burden, baggage, and every thing they brought with them, and drowned; a few of them only escaping, who found means to retire to the neighbouring mountains.*” I beg leave to admonish the Reader, that the firmament, as described in these papers, was to the *Aborigines* of the earth a natural telescope; which magnified objects far beyond the power of art, and gave them a large and pleasing view of the smallest alterations in

in the phases of the starry sphere. So these men had better opportunities of making observations, than those which are the best amongst their latest posterity. Touching the uses of the heavenly bodies as measures of time, it is needless to add any thing.



CHAP. XXVIII.

On the Origin of Mankind.

IHAVE not understood, that the History of the Creation has been objected against, particularly, for the account given of the lower animal productions at the first; and therefore that part of the History is left unexamined; as was done before with regard to the productions of trees, and vegetables. But since it has been objected, that *black* and *white* men could not be derived from one

R

pair

pair of mortals, as all mankind are derived by *Moses*, I have taken some pains, to make out a clear account of the generations from *Adam*, to the times beyond the first father of the *Ethiopic* race. The account is taken from a supposed atheist, whose first chapter, as cited from *Eusebius*, has been already examined, and we are now come to the second.

“ *THE*
“ *History of the principal line.*

“ *Generation I.*

“ *O F the wind Colpias, and his wife*
“ *Baau, or Baui as Bochart reads, were*
“ *begot two mortals, called Protogonus and*
“ *Æon: And Æon found out the way of*
“ *taking food from trees. The first genera-*
“ *tion of mortals.*”

THE Bishop saith, p. 207, “ *Scaliger*
“ *and Grotius own this Baau to be the*
“ *same with Bohu in Moses.*” Now we
have seen that *Bobu* means the chaos;
which

which is therefore the wife here spoken of: and it is said expressly, that the husband was the *wind*. Wherefore the human race is derived, in this tradition, from the dark wind, or night, and chaos; from which principles this author, with *Moses* and others, derived the Creation of the universe; as appeared in the beginning of this volume.

WHEN our author says: "*Æon found out the way of taking food from trees,*" the disguise cannot conceal the true history, that the woman first took the forbidden fruit from the tree of knowledge of good and evil.

"Gen. II.

"*Those that were begotten by these were called Genus and Genea, and dwelt in Phœnicia. But when great droughts came, they stretched their hands up to heaven towards the sun; for him, he saith, they thought the only lord of heaven, calling him Beelsamin, which in Phœnician is*

R 2

"lord

"lord of heaven, in Greek is Zeus."

BY *genus* and *genea* is most certainly meant the whole human race male and female; who are all derived from one pair, namely *Protogenus* and *Aeon*, that is, Adam and Eve.

THE Bible informs us, that Cain was the first male born in the world, so his generations are first recorded in the fourth chapter of *Genesis*: to whom the first inventions of arts are there ascribed. Of which revelation the tradition before us is a disguised account. *Moses* says, "Cain ~~was~~ builded a city, and called the name of the city, after the name of his son, Enoch." So *Santhoniatha* settles *Genus* with *Genea* in *Phœnicia*; which was therefore the first city, called *Enoch* by *Moses*. Nothing is said, in the disguised tradition, of Cain's murder, nor of his exile, whilst he lived in the land of wandering: "Nod, nomen regionis in quam expulsus fuit Cajin, quasi terra vagationis et exilii dicta." Buxt. But Cain must have lived long

long enough to have much issue, before
 “*he dwelt in Phœnicia* : ” for it is not to
 be conceived, that he would undertake
 to build a city alone ; or that he would
 labour, in vain, to have a city without
 inhabitants.

“*But when great droughts came, they
 stretched their hands up to heaven towards
 the sun; for him they thought the only lord
 of heaven and earth.*” In process of
 time, from the Creation, the sun’s power
 was visible, both upon the congealed wa-
 ters above, and upon the earth beneath ;
 and the danger of a deluge seems now
 to be apprehended by these idolaters, if
 it was not revealed to them through *A-
 dam* or otherwise. So, Sin having domi-
 nion over them, they worshipped, living
 in ignorance and fear, the power from
 whence evil was dreaded.

“ Gen. III.

“*Afterwards, from Genus, the son of
 Protogonus and Aeon, other mortal is-*
 sue

“*she was begotten, whose names were Light,
 “Fire, and Flame. These found out the way
 “of generating fire, by the rubbing of pieces
 “of wood against each other; and taught
 “men the use thereof.*”

THE uses of fire are very considerable; so the men of the third generation were honoured, it seems, with names which might be memorials of their discoveries; although such particulars were not within the design of the inspired writer.

Gen. IV.

“*These begat sons of vast bulk and height,
 “whose names were given to mountains on
 “which they first seized. So from them were
 “named mount Cassius, and Libanus, An-
 “tilibanus, and Brathys.*”

IT is not mentioned in the records in Genesis, that *Irak*, who was in the fourth generation, exceeded those that were before him in stature: yet *Moses* may refer to this race of men, when he says

“*there*

"there were giants in the earth in those days." Gen. vi. 4. They, perhaps, chose the mountainous parts for their dwellings as the best security against the expected "flood of waters." Being superiour in strength they could take the places which they liked best.

"Gen. V.

"Of these, saith he, were begotten, Mem-
rumus, and Hypsuranius, (or, as Bo-
chart reads it, who is also called Hypsu-
ranius,) & but they were so named by their
"mothers, the women of those times, who,
"without shame, lay with any man they
"could light upon.

"Then, saith he, Hypsuranius inhabit-
"ed Tyre. And he invented the making of
"buts of reeds and rushes, and the paper
"reeds. And he fell into enmity with his
"brother Ufous; who first invented cover-
"ing for his body out of the skins of wild
"beasts which he could catch.

"And when violent tempests of winds
"and

“ and rains came, the boughs in Tyre be-
 “ ing rubbed against each other took fire,
 “ and burnt the wood there. And Ufous
 “ having taken a tree, and broke off it's
 “ boughs, first was so bold as to venture
 “ upon it into the sea.

“ And he consecrated two stelai, ruder
 “ stones translated pillars, to fire and wind,
 “ (probably those violent ones that had
 “ burnt the wood;) and he bowed down
 “ to, or worshipped them, and poured out to
 “ them the blood of such wild beasts as had
 “ been caught in hunting. But when these
 “ were dead, those that remained consecrated
 “ to them rabdous, stumps of wood, and
 “ stelas, worshipping them; and kept anni-
 “ versary feasts unto them. ”

UPON the unchastity of this genera-
 tion Bishop Cumberland remarks, p. 241;
 “ It agrees with the intimation that Mo-
 “ ses gives concerning the debauchery of those
 “ ages, and the general corruption of the
 “ world which ensued upon it. ” The earth
 was afterwards “ filled with violence, ” and

we see that *Cain's* hatred to his brother was followed in this generation.

THE expedition of *Ufous* was, probably, over the *Red Sea*, in search of a settlement; as colonies may be judged to branch abroad about this time.

ANOTHER enemy was now dreaded, namely wind, besides fire; which was also worshipped for fear, as the sun was said to have been worshipped. And they had also a nearer prospect of that terrible tempest which was to destroy the world. For we have seen in the *Cosmogony*, that the tempest was preceded by winds and clouds; after which came on "great defluxions of the heavenly waters." See p. 217, 218.

" Gen. VI.

" After many years from the generation of
 " *Hypsuranius*, (which is the fifth,) came
 " *Agreus*, and *Halieus*; the inventers of
 " the arts of hunting, and fishery: from whom
 " hunters and fishermen are named. "

and Moses

Moses has not thought fit to inform us who were the inventors of those arts.

“Gen. VII.

“Of these were begotten two brothers,
 “the inventors of iron, and of the forging
 “thereof. One of these called Chryſor,
 “whom he affirms to be Hephæſtus or
 “Vulcan, exerciſed himſelf in words, and
 “charms, and divinations; and he found
 “out the hook, bait, and fiſhing-line, and
 “boats ſlightly made; and that he was the
 “firſt of all men that ſailed. Wherefore he
 “alſo was worſhipped after his death for
 “a god; and they called him Diamichius:
 “and ſome ſay, his brothers invented the
 “way of making walls of brick.”

THE order of generations in the Bible is the following; *Adam, Cain, Enoch, Irad, Mebujael, Methuſael, Lamech*. Here *Lamech* is the ſeventh from *Adam* inclusive: of whom *Moses* ſays nothing that may cauſe us to look upon him as the *Vulcan* of the pagans. Wherefore *Sancho-*
niatho's

niatbo's history mentions "the inventers
 " of iron, and of the forging thereof,"
 sooner than was proper. For *Tubal-Cain*,
 in the next generation, was "an instruc-
 " ter of every artificer in brass and iron."
Lamech had divers sons by different wives,
 who were the authors of useful and in-
 genious discoveries. And this diversity of
 mothers may have occasioned a misreck-
 oning, in the history of generations which
 came into *Sanchoinatbo's* hands.

" Gen. VIII.

" Afterwards, from this generation came
 " two brothers; one of which was called
 " Technites, that is, the artist; the other
 " Geinus Autochthon; the home-born man
 " of the earth. These found to mingle stub-
 " ble, or small twigs, with the bricky earth,
 " and to dry them by the sun; and so made
 " tiling."

THIS is the last generation in *Cain's*
 line mentioned by *Moses*: unless we di-
 vide *Lamech's* offspring, as they came

from two mothers. The *Phœnician* counts two generations more, which I shall insert in this place, as not needing an explanation; and as they may be all taken together for *Lamech's* family.

“ Gen. IX.

“ By these were begotten others; of which
 “ one was called *Agrus*, (*Field*,) the other
 “ *Agrouerus*, or *Agrotes*, (*Husbandman*,)
 “ who had a much worshipped statue, and
 “ a temple, carried about by one or more
 “ yoke of oxen in *Phœnicia*. And in books
 “ he is eminently called the greatest of the
 “ gods. These found out how to make courts
 “ about men's houses, and fences, and caves,
 “ or cellars. Husbandmen, and such as use
 “ dogs in hunting derive from these. And
 “ they are also called *Aletæ*, and *Titans*.

“ Gen. X.

“ From these were begotten *Amynus* and
 “ *Magus*; who shewed men to constitute
 “ villages, and flocks. ”

THE

THE two brothers in the eighth generation, one "*the home-born man of the earth,*" and the other "*the artist,*" agree well enough with the characters of two of *Lamech's* children in this generation, under which the holy Scriptures represent them, in the fourth chapter of *Genesis*. "*And Lamech took unto him two wives: the name of the one was Adah, and the name of the other Zillah. And Adah bare Jabal: he was the father of such as dwell in tents, and of such as have cattle. — And Zillah she also bare Tubal-Cain, an instructor of every artificer in brass and iron.*" The children of these in the next generation, may have so far improved *Jabal's* inventions, that they were respected as much or more than their ancestor; and were on this account entitled to notice in *Sancho-niatho's* history, though they deserved not to be mentioned by *Moses*; not being the "*fathers*" or first inventors of the arts by which they became famous to posterity.

WHILST

WHILST we are considering the successions and inventions in Lamech's family, another circumstance belonging to this family seems to solicit attention. The circumstance which I mean is the murder spoken of by himself to his wives: "And Lamech said unto his wives Adah and Zillah, Hear my voice ye wives of Lamech, bearken unto my speech: for I have slain a man to my wounding, and a young man to my hurt. If Cain shall be avenged seven fold, truly Lamech shall be avenged seven and seven fold." The likeliest way to attain a sense of the passage that may be trusted to, as highly probable at the least, is, first of all to get a knowledge of facts, upon which the interpretation may rest. A murder then was most certainly committed. For he says "I have slain a man." The murder likewise concerned his wives; else why are they so emphatically addressed, "Hear my voice ye wives of Lamech, bearken unto my speech: for I have slain a man." He

He himself appears also to have been wounded in the encounter: "I have slain a man to my wounding, and a young man to my hurt." Lastly he had a cause, which he thought warranted the slaughter; so that no man dared to slay him for that he had killed the young man, "If Cain shall be avenged seven fold; truly Lamech seventy and seven fold." Hence if we can find a case, in which he might probably slay a man with all these circumstances; that is very probably the case which we are enquiring after. But all these circumstances concur in a case of adultery. And as we know, that the world was not better in the seventh or eighth generation than it was found in the fifth; when "the women without shame lay with any man they could light upon;" either or both of Lamech's wives may have been taken in adultery with a young man: and the Gallant may have been slain by the angry Husband, at the peril of his own life. Upon which
it

it seems natural for him to justify himself for what he had done, and to let the women know, that he feared no revenge from any of their lovers and confederates. We learn moreover from this incidental relation, that the last man spoken of in the line of *Cain* was a murderer, as *Cain* had been.

PERMIT me to conclude our Author's history of his first line with an observation from *Horace*, which agrees with *Lamech's* circumstances, as I have represented them.

" *Nam fuit ante Helenam cunynus teterrima belli*

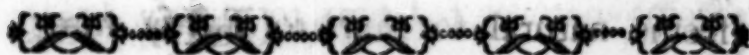
" *Causa: sed ignotis perierunt moribus illi*

" *Quos venerem incertam rapiētes more ferarum*

" *Viribus editior cædebat; ut in grege taurus.* "

Hor. b. 1. sat. 3.

CHAP.



CHAP. XXIX.

The Examination of the Phœnician Memoirs continued.

THE Reader would hardly have been pleased with large comments on the traditions of the last chapter; which are less interesting than those that follow.

“THE
“ *History of the second line.*

“ Gen. XI.

“ FROM these men were begot Mis-
“ sor, and Sydic; i. e. *Well-freed, and Just.*
“ *These found out the use of salt.* ”

ALL the men of the ten generations were extinct, by GOD’s “ *bringing in the*
“ *flood upon the world of the ungodly:* ”
but this event, as has been remarked
in the former pages, is silently overlook-
ed.

T

ed. So the history is carried on, from the tenth to the eleventh generation, as if the latter was lineally descended from the former. The next generation has it's proper place.

“ Gen. XII.

“ *From Misor came Taautus; who found*
 “ *out the writing of the first letters; whom*
 “ *the Egyptians called Thoor, the Alex-*
 “ *andrians Thoyth, and the Greeks Her-*
 “ *mes. But from Sydic came the Dioscu-*
 “ *ri, or Cabiri, or Corybantes, or Samo-*
 “ *thraces. These, he saith, first invented*
 “ *the building a Ploion or complete ship.* ”
 Let the next generation follow uninterruptedly.

“ Gen. XIII.

“ *Of these others came; who found out*
 “ *herbs, the cure of bitings, and charms.* ”

THE Phœnician Historian, intending to point out the *Aborigines* of his country, was under a necessity of recurring to
 Seth's

Setb's line; by which *Phœnicia* and all the world were peopled. And as *Ham* the son of *Noah* will be proved the *Phœnician* Head, his ancestors are referred to, as has been usual with writers. The reference is evident in the next paragraph.

“ *In these men's age, viz. in the 9th*
 “ *and 10th, there was one Elioun; which*
 “ *imports in Greek, Hypsistus, the most*
 “ *high; and his wife was called Beruth;*
 “ *which dwelt about Byblus: from whom*
 “ *was begotten one Epigeus or Autoch-*
 “ *thon, whom they afterwards called Ou-*
 “ *ranus, i. e. Heaven. So that from him,*
 “ *that element which is over us, by rea-*
 “ *son of it's excellent beauty, is called Hea-*
 “ *ven: And he had a sister of the same pa-*
 “ *rents called Ge, i. e. Earth: and by rea-*
 “ *son of her beauty the earth had her name*
 “ *given to it. ”*

WE are got back to *Lamech*, who was the father of *Noah*, who was the father of *Ham*; whose genealogy and history is the object of our Author's me-

memorial, which proceeds regularly forward. But I must intreat the Reader to stop a little, and enquire in this place concerning *Misor* and *Sydic*, who are placed in the 11th generation.

Misor is introduced only to shew the parentage of *Taautus*; who has a large share in this memorial. He was settled, as will be manifested in our progress, in *Egypt*. Where *Mizraim* of the precedent generation was first settled, according to the *Mosaic* history: from whom *Egypt* has the name of *Mizraim* in the Bible; as is very well known. From the Bible we learn also, that *Mizraim* was the son of *Ham*; who is *Cronus* in *Sanchoniatho's* language; and is therefore the same with *Misor*. For *Misor* can be no other than the son of *Cronus*; inasmuch as there are but two roots in this second line, and these will appear to be *Ham* and *Shem*: there are likewise but the branches of these roots *Misor* and *Sydic*; and when I have proved *Sydic* to be in the line of
Skem,

Shem, it will clearly follow, that *Misor* was of the other line, where the department of the first born was *Egypt*. Permit me to insert here, that Bishop *Cumberland* says, we are assured by *Sanchoniatho*, "that *Cronus was the father of Misor*:" but not seeing this assurance in his Lordship's extracts from *Eusebius*, and not having directly the power to consult *Eusebius* himself; I thought it requisite to give the proof, as above, that *Misor* is the son of *Cronus*, and that he is the scriptural *Mizraim* the son of *Ham*.

THE Bishop, and others besides his Lordship, would have this *Sydic* to be the very *Shem* of *Moses*: and they would persuade us further, that *Melchisedec* is the same person; and that the same *Shem*, or *Sydic*, or *Melchisedec*, lived from the flood to the days of *Abraham*. But surely this opinion is built upon no good foundation. For with what propriety could an historian, who professedly writes of the successions of generations, confound the generations

generations of father, and son? Which confusion takes place, if *Sydic* be the father *Shem*, and matched with *Misor* his brother's son: whereas *Shem* had children of the age of his brother's children; which branches answered one to the other in the generation succeeding the fathers.

THIS notion is also, if I am not utterly mistaken, refuted by *St. Paul's* reasoning about *Melchisedec*, in the seventh chapter of his epistle to the *Hebrews*: where he saith of *Melchisedec*, that he is “not genealogized;” which cannot be said of *Shem*, whose genealogy is deduced from *Adam*, and continued to *CHRIST JESUS*. Wherefore *Melchisedec* must not be looked for in *Arphaxad's* or the *Abrahamic* line; he is more properly derived from one of those sons of *Shem* whose descent is no otherwise recorded than in this manner: “*And Shem lived after he begat Arphaxad five hundred years, and begat sons and daughters.*” *Gen. xi. 11.*

WHAT has been thus briefly set down concerning

concerning *Shem* and *Melchisedec*, makes a plausible proof that *Melchisedec* was about the age of *Abraham*, rather than of *Shem*. They had both of them the same ancestor *Shem*; and may therefore be more reasonably reckoned equal in years, than to have such a prodigious disparity in their ages as has been injudiciously assigned them. At least it is more than probable, that there were many generations between *Sydic* and *Melchisedec*. We have good grounds to believe, that the king of *Zedec*, or righteousness, was the title of every successor of *Sydic*, in *Salem* or *Jerusalem*. Which city plainly derives it's name *Zedec* from *Sydic* the *Just*; and it's name *Salem*, or the city of peace, from the peaceable disposition of the same just person; and it's name *Jerusalem*, or the inheritance of peace, from the same original; whence it descended, perhaps, as the inheritance of his posterity, even to the time of *Joshua*; when *Adonizedec*, which is a name of the same import with *Melchisedec*, was the
the

the king of *Jerusalem*, as is seen in his tenth chapter.

THE parentage of *Misor* and *Sydic*, and the genealogies in general, which are now brought on this side of the flood as before-mentioned, may be, I apprehend, ascertained by a state and comparison of *Cain's*, and *Seth's* lines in *Moses*, with the generations in *Sanhoniatho*: as in the following manner:

ADAM. PROTOGONUS.

2. <i>Cain.</i>	<i>Seth.</i>	<i>Genus.</i>
3. <i>Enoch.</i>	<i>Enosh.</i>	<i>Light.</i>
4. <i>Irad.</i>	<i>Cainan.</i>	<i>Giants.</i>
5. <i>Mebujael.</i>	<i>Mahalaleel.</i>	<i>Hypsuranius.</i>
6. <i>Metbusael.</i>	<i>Jared.</i>	<i>Agreus.</i>
7. <i>Lamech.</i>	<i>Enoch.</i>	<i>Vulcan.</i>
8. <i>Jabal.</i>	<i>Metbusalah.</i>	<i>Autochthon.</i>
9. <i>Tubal-Cain.</i>	<i>Lamech.</i>	<i>Titans.</i>
10. <i>Naamab.</i>	<i>Noah.</i>	<i>Amyrus.</i>

It will appear, at least probable, by and by, that *Naamab* was the wife of *Noah*; wherefore she may very well pass for

for a cotemporary with the men of the 10th generation. *Tubal-Cain* may be deemed so much younger than *Jabal*, his brother by his father's second wife, that he may be ranked after him. So when *Abraham* had children in his old age by *Keturah*, their ages better suited with the ages of grand-children than with the next generation to their father.

It is also highly probable, that *Cain's* espousal, or cohabitation at least with his wife, was after the marriage of *Seth*; and the generations in the latter line may exceed on that account. For *Cain* can hardly be supposed to have the comfort of a wife in his state of exile; which he speaks of as unconnected with comfort, and insupportable. Nor is it at all likely that any one of his sisters desired, or was permitted by *Adam*, to associate with the murderer of a brother; whilst he wore also a mark which God set upon him, that he might live for a time in torment, the token and remembrancer of

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his

his guilt. After all, we need not suppose *Naamah* of the same age as *Noah*: She was probably much older than the patriarch.

LET us now return to the enquiry concerning *Noah's* family as they appear in the memoirs. The name of his father was *Elioun* signifying highest, as *Sancho-niatho* acquaints us in his thirteenth generation. “*In these men's age, viz. in the 9th and 10th, there was one Elioun, which imports in Greek Hypsistus, the most high.*” This account carries us back to *Lamech*, the father of *Noah*, or *Ouranus*, as he is called in the history under examination.

Elioun, or “*Hypsistus the father of these, dying in fight with wild beasts, was consecrated; and his children offered sacrifices and libations to him.*”

THE scripture, carrying on the history of the world in the briefest manner, informs us not of the manner of this man's death: but as he lived, by the scriptural account,

account, fewer years by far than his predecessors; it may be guessed from hence that his death was not natural. And I leave it to the Reader's consideration, whether the wild beasts, in fighting against which he died, according to the information which we have from the *Phœnician* Historian, may not be interpreted such beasts as St. *Paul* fought with at *Ephesus*; where he was persecuted for his zeal towards God. I have often repeated it, that the *Phœnician* memoirs disguise a fact, or circumstance, which was unfavourable for the irreligion of *Ham*, and others of his cast: and, agreeably to what is done in other parts of this ancient history, I am of opinion, that *Lamech* or *Elioun* or *Hypsisus* lost his life in combating the infidelity of his times, rather than in fighting with the wild beasts of the field.

“ But Ouranus, taking the kingdom of
 “ his father, married his sister Ge, and had
 “ by her four sons: 1. *Ilus*, who is called
 “ *Cronus*. 2. *Betylus*. 3. *Dagon*, who is
 “ *Siton*,

“ *Siton, or the god of corn. 4. Atlas.* ”

WE have henceforward no intimation concerning any man or woman, in the history, that lived in the world with this *Ouranus* and *Ge*; except those that were descended from them. And this proves *Ouranus* and *Ge* to be *Noah* and his wife, from whom the post-diluvian world derive their pedigree. The wife of *Noah* or *Ouranus* is described by *Sanchoiatho* as very beautiful: “ *by reason of her beauty, the earth had her name given to it.* ” She is moreover recorded as having the same parents with *Ouranus*: “ *he had a sister of the same parents called Ge.* ” By these lights we may possibly be guided to the scriptural name of *Noah*’s wife. For will not *Naamah* the daughter of *Lamech*, in *Cain*’s line, by *Zillah* his second wife, answer the description of *Sanchoiatho*’s *Ge*? The word *Naamah* is either deduced from “ *Naam, amœnum* “ *jucundum esse,* ” and has the same signification as *Naomi* in the book of *Ruth*;

OR

or from " *Naah, pulchrum decorum amabilem esse.* " Buxt. It is probable, she received the name, importing her to be amiable, from her extraordinary beauty. *Naamah's* father, in *Cain's* line, had also the same name with *Noah's* father in *Set's* line: for each of them was called *Lamech*. Now *Ouranus* being the son of *Lamech*, and *Ge* being the daughter of *Lamech*; there was room enough for an error; for supposing them the children of the same parent. To this may be added, that *Naamah* is named as the sister of *Tubal-Cain*, when other female names are omitted: the insertion of her name cannot therefore have happened for no reason: when she may be esteemed almost as a second *Eve*.

By this wife *Ouranus* or *Noah* had four sons, whose names have been given from *Sanchoniatho*. But there were no more than three sons of *Noah* at the time of the deluge; whence there was no need that *Moses* should mention another

ther son, who was wholly uninterested in the history which he wrote: In the *Phœnician* records, nothing appears more than the name of *Betylus* the second son of *Ouranus*: from whence it may be collected, that this second son perished before the flood.

“ But by other wives *Ouranus* had much
 “ issue ; wherefore *Ge*, being grieved at it,
 “ and jealous, reproached *Ouranus*, so as
 “ they parted from each other. But *Oura-*
 “ nus, tho’ he parted from her, yet, by force
 “ invading her, and lying with her, when
 “ he list’d, went away again ; and he also
 “ attempted to kill the children he had by
 “ her. *Ge* also often defended or avenged
 “ her self, gathering auxiliary powers unto
 “ her. ”

THE memorials, passing to *Sancho-*
niatbo through *Ham*, are every where
 made injurious to *Noah*; the better to
 justify *Ham*’s iniquitous rebellion, and
 murder of his father, which is related in
 the history of the last line. Yet I do
 not

not imagine every circumstance, which represents *Noah* as at variance with his wife, or family, to be maliciously invented by his rebellious son: he was likely to represent his father's behaviour in the worst light; without departing intirely from the truth; and when he informs posterity that *Noah* could not live harmoniously with his whole family; it would have been unaccountable if he had been represented in a state of unity; when he was of the line in *God's* Service, and his wife was of *Cain's* line, "*who was of that wicked one, and slew his brother.*"

1. John iii. 12.

"*But when Cronus came to man's age,*
"*using Hermes Trismegistus as his Coun-*
"*seller and Assistant, for he was his secre-*
"*tary, he opposed his father Ouranus, a-*
"*venging his mother. But Cronus had chil-*
"*dren, Persephone, and Athena; the for-*
"*mer died a virgin, but by the counsel of*
"*the latter, Athena, and of Hermes, Cro-*
"*nus made of iron a scimeter and a spear.*

"*Then*

“Then Hermes speaking to the Assistants
 “of Cronus with enchanting words, wrought
 “in them a keen desire to fight against Ouranus, in the behalf of Ge. And thus
 “Cronus warring against Ouranus drove
 “him out of his kingdom, and succeeded in
 “the imperial power or office.”

THE ninth chapter of *Genesis* teaches us, that *Ham* had “done” somewhat to his father, whilst he was oppressed with sleep and wine; which so offended him, that he cursed the offender bitterly; when he “awoke from his wine, and
 “knew what his younger son had done unto him.” After which, we do not any where read of a reconciliation, although this was just after the flood; beyond which period “Noah lived three
 “hundred and fifty years.” This was time enough for *Ham*’s children to have grown up under him for his assistance: and so we read that *Hermes*, his grandson, was old enough to be his Secretary and Counsellor, before *Ouranus* was deprived

deprived of his authority, by Cronus and his accomplices.

*" In the fight, was taken a well beloved
" concubine of Ouranus, big with child,
" Cronus gave her in marriage to Dagon;
" and she brought forth at his house what
" she had in her womb by Ouranus, and
" called him Demaroon. "*

Ouranus was more than nine hundred years old when this concubine was taken from him, as will be proved by and by; and since his inclination continued at that time towards the younger ladies; it cannot be doubted that his wife, who is in all reason to be judged elder by much than her husband, had causes of complaint against him, in his younger days.

*" After these things, Cronus builds a wall
" round about his house, and founds Byb-
" lus, the first city in Phœnicia. After-
" wards Cronus suspecting his own brother
" Atlas, with the advice of Hermes, throw-
" ing him into a deep hole of the earth,
" there buried him. "*

Cronus being now supreme founded the seat of his empire in *Phœnicia*, where he fortified himself against his father and his brethren, from whom he had reason to apprehend danger, for the recovery of the dominion which he had usurped. And suspecting *Atlas* or *Shem* who adhered closely to his father, and to the God of his father, he deprived that innocent brother of his life.

“ *At that time, the descendents of the
“ Dioscuri having built some tumultuary
“ and other strong ships went to sea, and
“ being out over against mount Cassius,
“ there consecrated a temple. ”*

THE family of the *Dioscuri* came from *Shem*, as appeared in the former part of this chapter: hence as danger threatened them from the author of *Atlas's* death, the head of their family, they forsook the land; and fled by sea, “ *to-
“ wards the south unto the way that goeth
“ down from Jerusalem unto Gaza, which
“ is desert. ”* They “ *there consecrated a
“ temple, ”*

“ temple, ” I suppose, to their father’s G O D ; to whom alone they could flee for help, from the persecution of their wicked enemy : the peaceable Sydic is not engaged in this tumult.

“ But the auxiliaries of Ilus, who is
 “ Cronus, were called Eloim, i. e. Ilus’s
 “ men, or those that were for Cronus. But
 “ Cronus having a son called Sadid, dis-
 “ patched him with his own sword, having
 “ a suspicion of him, and deprived his own
 “ son of life with his own hand. So also
 “ he cut off the head of his own daughter ;
 “ so as all the gods, the Eloim, were a-
 “ mazed at the mind of Cronus. ”

A Tyrant regards not the lives of his nearest relations, if they are suspected to stand in the way of his ambition. Yet even his secretary and chief minister could not conceal from posterity, that the very friends and confederates of the blood-thirsty usurper stood “ amazed ” at his violent proceedings.

“ But in process of time, Ouranus being

“ in flight, or banishment, sends his daugh-
 “ ter Astarte, with two other sisters Rhea
 “ and Dione, to cut off Cronus by deceit :
 “ whom Cronus taking made wives of
 “ these sisters. Ouranus understanding this,
 “ sent Eimarmene and Hora, Fate and
 “ Beauty, with other auxiliaries, to war
 “ against him. But Cronus having gained
 “ the affections of these also, kept them with
 “ himself. Moreover the god Ouranus de-
 “ vised Bætulia, contriving stones that mo-
 “ ved as having life. ”

IT may be inferred from hence, that
 Ouranus, in his extreme old age, trusted
 more to his own cunning devices than
 to the GOD of heaven, who had so long
 preserved him from his son's machinations
 against him: after which he became a
 prey to his enemy, as he might have
 expected.

“ But Cronus begat on Astarte seven
 “ daughters called Titanides, or Artemi-
 “ des; and he begat on Rhea seven sons,
 “ the youngest of which as soon as he was
 “ born

" born was consecrated a god. Also by Di-
 " one he had daughters; and by Astarte
 " moreover two sons, Pothos, and Eros,
 " i. e. Cupid, and Love."

THIS paragraph and the following
 may pass without a remark.

" But Dagon, after he had found out
 " bread-corn, and the plough, was called
 " Zeus Arotrius." The following pa-
 ragraph is the only one remaining in the
 history of the second line.

" To Sydic or the Just, one of the Ti-
 " tanides bore Asclepius. Cronus had al-
 " so in Peræa three sons: 1. Cronus, his
 " father's name-sake. 2. Zeus Belus, 3.
 " Apollo."

THIS last quotation sets before us a
 nother cause of Sydic's living unmolested
 by *Ham*, although his grandfather and
 his own children fled for safety from him
 besides his just mind, and quiet temper;
 for he is now discovered to be the son
 in law of *Ham*, and to have issue by a
 daughter of that Potentate: from whence

it

it may be judged, that Sydic wanted not the wisdom of the serpent, whilst he possessed the harmlessness of the dove.



CHAP. XXX.

The Phœnician History concluded.

IT appeared necessary to quote the several particulars of the tradition, for preserving the connection; although it is not necessary to comment upon every article contained in these memoirs; the end of which is now high at hand.

“ *THE*
“ *History of the last line.*

“ *CONTEMPORARY* with these
“ were Pontus, and Typhon, and Nereus
“ the father of Pontus. From Pontus
“ came Sidon, (who by the exceeding sweet-
“ ness of her voice, or singing, found out the
hymns

“ *hymns of odes, or praises,*) and *Posidon,*
“ *or Neptune.* ”

THESE marine names point pretty plainly to the family of *Japheth*, according to it's division in the tenth chapter of *Genesis*: “ *By these were the isles of the*
“ *gentiles divided, in their lands, every one*
“ *after his tongue, after their families, in*
“ *their nations.* ”

“ *But to Demaroon was born Meli-*
“ *cartus, who is Hercules.* ”

Demaroon was born in the house of *Dagon*, as mentioned p. 307; and as *Demaroon's* history is mixed, in this last line, with *Pontus*, and *Typhon*, and *Neptune* the descendent of *Pontus*; they must certainly be judged the offspring of the same parent *Dagon*: And he must needs be the *Japheth* of *Moses*; as the names in this line suit the possessions of *Japheth's* family described by *Moses*. So *Cro-nus* is *Ham*, and *Dagon* is *Japheth*; therefore *Atlas* is *Shem*.

I am inclined to think, that *Taautus*
designedly

designedly left the original of this family in obscurity, the better to conceal the seeming design, in the History of the second line, already mentioned, of hiding the punishment of men's wickedness by the flood from the knowledge of posterity. *Dagon* might have also the name *Nereus*; as *Cronus* was called *Ilus*.

"Then again, *Ouranus* makes war against *Pontus*; and, being separated from him, joins with *Demaroon*."

Not *Ham* alone was disobedient; there was open war between *Noah* and *Japheth's* line. Yea the family of *Shem*, that branched eastward, degenerated, and, even to *Abraham*, idolatry subsisted in this family; as *Joshua* tells the people of *Israel* from the mouth of the LORD:
 "Thus saith the LORD GOD of *Israel*,
 "Your fathers dwelt on the other side of
 "the flood in old time, even *Terah* the
 "father of *Abraham*, and the father of
 "Nachor: and they served other gods."
Josh. xxiv. 2. I believe "the other side of
 "the

"the flood," would be better rendered *the other side of the river, i. e. the other side of Euphrates*. But the translation in our Bibles shews plainly, that, in the opinion of the Translators, the Hebrew word *Nabar* may be used to express the greatest collection of waters; which is a justification of what I have said concerning the sense and meaning of that word p. 205 and 206.

"DEMAROON invades Pontus, but Pontus puts him to flight; and Demaroon vows a sacrifice for his escape." This requires no paraphrase.

"But in the thirty-second year of his power and reign, Ilus, who is Cronus, having laid an ambuscade for his father Ouranus in a certain midland place; and having gotten him into his hands; cuts off his privities, near fountains and waters of the rivers: and the place is shewed unto this day."

Noah lost his life in the thirty-second year after he had been deprived of his government; therefore he lived nine

hundred and eighteen years before this calamity befell him: for the years of his life were “*nine hundred and fifty.*” Therefore he was considerably more than nine hundred years old, when his concubine was taken from him, at the battle, which established *Cronus* in power, and was the ruin of his father’s affairs.

WHAT *Noah* suffered from *Ham* in the relation of *Moses* was soon after the flood: but the wickedness perpetrated by *Ham* in the thirty-second year of his reign was three hundred and fifty years after the flood: for so long did *Noah* survive the desolation by the deluge, as we read in *Gen.* ix. 28. Therefore the trespass hinted by *Moses*, not affecting the life of *Noah*, nor his health, as may be guessed from the length of his days after that event, was either an unpardonable act of presumptuous insolence, or the beginning of some dangerous mischief, which he seems afraid to go through with, unless he
could

could have been joined by his brothers.

"Then our Historian after some things interpreted goes on saying, But Astarte called the greatest, and Demaroon entitled Zeus, and Adodus named king of the gods, reigned over the country by Cronus's consent or authority. And Astarte put on her head as the mark of her sovereignty a bull's head. But travelling about the world, she found a star falling from the air or sky: which she taking up consecrated in the holy island Tyre. And the Phœnicians say, that Astarte is she who is among the Greeks called Aphrodite."

In those early ages, the stars were not grown to their modern philosophical magnitudes; and their distances from the earth were reputed small, according to their dimensions: the star fell "from the air or sky." Their diameters have been in later days supposed "above 100,000 times greater than the diameter of our earth." See Vol. I. P. 7, and 66.

The meaning of the mystery seems to be that she was deified.

“CRONUS also, going about the world,
“gave to his own daughter Athena the
“kingdom of Attica. But when there was
“a plague and mortality; Cronus made
“his only son a whole burnt-offering to his
“father Ouranus.”

VENGEANCE has pursued the ungodly in all ages of the world.

“And Cronus was circumcised in his
“privities, and forced his auxiliaries to do
“the same.”

I have thought, that Cronus circumcised his father; and that he intended to have disabled him for constituting more partners with the three sons that then only existed; if his two brothers would have concurred with the parricide: But as they revered their father like an angel of God, the attempt was necessarily laid aside, 'till he became capable of acting without controul. And finding moreover his father's fruitfulness

continue

continue, he might very possibly impute this to his circumcision; and on that account practise the same upon himself, and require the compliance of his auxiliaries; as a means whereby they might be multiplied, and be stronger than their enemies in futurity also, as they were for that time. Let the residue of the history go on without any remark to the end.

“ And not long after he consecrated, after his death, another son, which he had by Rhea, called Muth; for the Phœnicians call Death or Pluto.

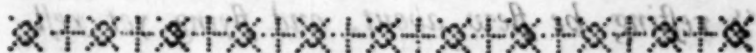
“ After these things Cronus gives the city Biblus to the goddess Baaltis, which is Dione; and Berytus he gave to Posidon, and to the Cabiri, and to husbandmen, and to fishermen, who consecrated the remains of Pontus in or unto Berytus.

“ But before these things, the god Tautus, having formerly imitated or represented Ouranus, made images of the countenances of the gods Cronus and Dagon;

“ Dagon; and formed the sacred charac-
“ ters of the other elements. He contrived
“ also for Cronus, the ensign of his royal
“ power, four eyes, partly before and partly
“ behind, two of them winking as in sleep:
“ and upon his shoulders four wings, two
“ as flying, and two as let down to rest.
“ The emblem was, that Cronus when he
“ slept was yet watching, and waking yet
“ slept: And so for his wings, that even
“ resting he flew about, and flying yet rest-
“ ed. But the other gods had two wings
“ each of them on their shoulders; to in-
“ timize, that they flew about with or un-
“ der him. He also had two wings on his
“ head; one for the most governing part
“ of the mind, one for the sense.

“ But Cronus coming into the south coun-
“ try, gave all Egypt to the god Taautus,
“ that it should be his kingdom. These things,
“ saith he, the Cabiri, the seven sons of
“ Sydic, and their eighth brother Ascle-
“ pius, first of all set down in memoirs
“ as the god Taautus commanded them.”

It may be judged, they were “set down” in *hieroglyphics*; which were anciently used by the *Egyptians*, and which appear to be the invention of *Taautus*, in the last paragraph save one. And these *hieroglyphics* may be supposed the letters which he is said to have invented, in the beginning of the History of the second line.



CHAP. XXXI.

On the origin of the Ethiopians, and the peopling of America.

AS *Mizraim* is the Bible name of *Egypt*, so *Cush* is the Bible name of *Ethiopia*. The reason why *Egypt* is called in the *Hebrew Bible* by the name of *Mizraim*, and not *Egypt*, is evident enough: The name of the first prince that reigned in *Egypt* was continued to that

that country, which his posterity enjoyed after him, as appeared from the memoirs of *Phœnicia*. For the same reason it may be concluded safely, that *Cush* and his family settled in *Ethiopia*, which passes under the name of *Cush* in the *Hebrew*: as *Mizraim* and his family settled in *Egypt*, and caused that land to be called after the name of the founder, in the original; although the translators have given their modern names in the place of their *Hebrew* appellations. But the difficulty remains. How had *Cush* the son of *Ham* a different complexion from *Mizraim* his brother? This could not happen in a natural way. I apprehend it was the effect of *Noah's* curse upon *Ham*, for his son's evil behaviour towards him. That *God's* displeasure should appear by some extraordinary token, upon the beginning of *Ham's* disobedience, seems necessary; that order might be preserved, by subjection to parental authority at that time; when the world would have
been

been preserved to no purpose in one family, if that family should be divided against it self, before it had taken root for it's destined increase. And that God's displeasure was shewn according to the prediction of the curse, upon *Canaan* the youngest son of *Ham*, was, a good while after this, manifested by the fall of his posterity before the people of *Israel*. But it was proper that some sudden and striking sign should be given of a distinction between obedience and disobedience, when wickedness, so soon after the destruction of the world by the flood, lifted up a son's hand against his father, who was also the only father existing upon the earth. And what sign could be more alarming to the rebel, than a black child born to him, which threatened him as one marked out for vengeance with his whole posterity, from the first born to the youngest of his house, at least unavoidable without repentance and reconciliation to his abused father. *Noah* had planted a vineyard,

Z

and

and gathered the fruit of it, and was intoxicated by the wine, when his son took an advantage against him; whence it may be inferred that the time from the flood was sufficient to give an expectation of the human increase. And there is no doubt that the wives of *Shem* and *Japheth* brought forth the likeness of their parents; but *Ham's* wife, by reason of the curse, brought forth *Cush*; the meaning of which name is to be investigated. The word *Cush*, or, as *Buxtorf* writes it, *Chusch* is manifestly derived from *chafschab* to cover. And how could it happen but that the mother of such a preternatural birth would cover or conceal such a child from the ferocious spirit of his father; as she also covered at the same time a disgrace to her self, in being the parent of a son wholly unlike her sisters children, who certainly produced parental likenesses. If she may be judged inclined to murder the child, it could not have been in her power to accomplish

accomplish her desire. For *Noah*, assisted by his two sons, would surely have required a sight of the birth, as it was an important matter at this time to add or diminish a child: when the world consisted but of eight grown persons. The settlement of *Cush* in *Ethiopia*, at the extremity of the earth, may be called another proof of a consent to hide or remove this prodigy from his relations, which, probably, was by universal consent.

It seems, that the mark of Divine displeasure softened the hard heart of *Ham*, for a time, and brought him to submission and obedience, and for his encouragement to expect a mitigation of the curse denounced against his posterity, upon his dutiful behaviour, *Mizraim* his second son gives no reason for a suspicion of his being unlike the other children which came from the loins of his grandfather. It seems likely that

Not were all the posterity of *Cush* involved in the curse of rebellion and

mischief: for *Nimrod*, one of these, escaped the punishment of his family; who is generally, or rather universally, acknowledged the founder of the *Assyrian* empire: Concerning which, with the Reader's permission, I will offer a word or two, which may throw some light upon a part of history, where it is wanted.

WHEN *Moses* had set down the sons of *Cush*, as he had before recorded the sons of *Japheth*, he brings on *Nimrod* as by addition: "*and Cush begat Nimrod:*" describing him as a very great prince, "*a mighty hunter before the LORD:*" whose beginning of dominion was considerable, and the increase of it was proportionable; as may be seen in the tenth chapter of the book of *Genesis*: "*And the beginning of his kingdom was Babel, and Erech, and Accad, and Calneh, in the land of Shinar. (Out of that land went forth Ashur.) And he builded Nineveh, and the city Rehoboth, and Calah, and Resen, between Nineveh and Calah, the*
same

"*same is a great city.*" The parenthesis, together with the insertion of the nominative case *be*, renders the passage as intelligible as any thing whatsoever. *Nimrod* expelled *Asbur* the son of *Shem*, and possessed his land; which was nevertheless called *Affyria* afterwards from *Asbur*, the first lord; as other places also derived their names.

I have avoided excursions, but beg leave however to advertise the Reader, that if he will be prevailed on to travel in the historical way of *Moses*, he may observe under his direction various and delightful prospects; which many, who have looked for them from different grounds, have either not seen at all, or at best disadvantageously.

THAT the *Ethiopians* might pass into *America* is easily proved, by the following occurrence, which is related in the *Whitehall Evening-Post*, No. 2984.

"Nantz, April 4. (1765.) *A ship commanded by Mr. Michon, employed in buying*
" *ing*

ing up negroes at Buisso, near Senegal,
was drove from her anchors on the 21st
of November last, and could not regain
that coast. Her situation was the more
unhappy, having very little rice and wa-
ter on board, and no sea charts; and
the Captain was likewise very desirous to
put on shore two negro brokers he had
on board, but this was impossible. Finding
he could not avoid going to sea, he put
the two negro brokers, and two sailors,
to guard 37 slaves that were on board,
and, the wind being favourable, steered for
Martinico. The five persons who were at
liberty, were taken up night and day in
watching the slaves, and had nothing more
to subsist upon, during the whole voyage,
but a handful of rice, a glass of water,
and some spirituous liquors per day. After
sailing nineteen days the wind dropt, and
it continued quite calm for four days. The
Captain imagining that he was then 400
leagues from shore, began to be in despair
of reaching it, and had resolved to throw
his

“ his negroes overboard, to save the rest of
“ the crew. In this cruel situation, the Cap-
“ tain was taken ill with a violent fever,
“ and they must have been all irrevocably lost,
“ if a favourable wind had not happily sprung
“ up, which brought them within sight of
“ land the next evening. It is astonishing,
“ that in 24 days time, and during four of
“ which it was a calm, they should per-
“ form a voyage of 1200 leagues; yet this
“ was done, the Captain having landed at
“ Martinico the 15th of December.”

Mr. Michon was employed in the slave trade; which is of a very ancient date. As he thought himself in danger of being overpowered by the slaves in his ship; so we may suppose thousands, in that employment, have been in circumstances causing fearful apprehensions, from the same quarter. And that apprehensions from a few *Indians* are not without a foundation is plain, from what happened to *Pizarro*, a *Spanish* captain, of the *Asia* “ a ship of 66 guns, and manned
“ with

“with 500 hands.” The quarter-deck of this ship *Orellana*, with only ten Indians besides himself, possessed for the space of two hours: and when their chief fell, “his faithful companions all leaped into the sea, and perished.” The account is taken from Lord *Anson*’s voyages: and shews it to be very possible for such resolute barbarians to accomplish, at times more favouring them than the season now mentioned, schemes no way hazardous like this, but presenting an assurance of success, upon the attempt.

LET us suppose then a captain to have been overpowered by his slaves, and commanded by them to steer for some expected island, or uninhabited country, to be sought far enough from the land of their captivity: Why might they not get to *Terra Firma*, which is much nearer than *Martinico*, as safely as Mr. *Michon* reached the island? From the various accidents at sea, something like to this may have often happened. And if
many

many ships and lives have perished in such critical cases, enough however may have escaped the dangers of the sea to people *America*, as their own country was peopled. Lions, and other beasts of *Africa*, which are carried by sea to the different parts of the world, may be supposed transported in the ships with the slaves.

SCHOLIUM.

THE arguments which are offered to the Public, in this Essay, are infallible proofs, that *Moses* wrote the true History of the Creation. Therefore the book of *Genesis* deserves the regard due to the first book of nature. Attention to the first part of what was written by this great prophet will excite a desire, by GOD's grace, to study the further knowledge of the world, as revealed by our CREATOR, through *Moses*, and his successors, who wrote the History of

the First Testament. And thus we are gradually led on to seek the knowledge revealed in the Second Covenant. Most important truths are to be found in the New-Testament, respecting the state of this present world, as well as that which is to come. And indeed the knowledge of all truth must be drawn from the Fountain of all wisdom; as it flows for us under the direction of the SPIRIT; who has been proved the CREATOR and RULER of the world: To whom be Glory for ever. *Amen.*

The End of the Essay.

7 AP 66

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